

A SYNOPSIS OF THE GENUS *STREPTAXIS* AND ITS ALLIES.

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## PLATE IV.

THE genus *Streptaxis* was established in 1837 by J. E. Gray,<sup>1</sup> who included therein six species, i.e., *S. comboides*, *S. Maugerae*, *S. contusa*, *S. deformis*, *S. nobilis*, and *S. pagoda*. Of these *S. pagoda* has since been removed from the genus, being now regarded as pertaining to the genus *Gibbus*. Tryon, in 1885, enumerated 100 species, not including the species of *Happia* and *Scolodonta*, which then numbered fifteen. At the present moment the number of known species is 163, exclusive of *Happia* and *Scolodonta*, which contain thirteen and seventeen species respectively.

Pfeiffer divided the genus into six sections: *Artemon*, *Scolodonta*, *Ammonoceras*, *Eustreptaxis*—the last being split into two groups, *Odontartemon* and *Discartemon*. Mons. Ancey proposed two further sections, *Lamelliger* for *S. Troberti*, and *Oophana* for *S. bubulus* and *S. Michauxi*; while Mr. J. W. Taylor contributed yet another section, *Gonaxis*, for his *S. Gibbonsi*. Tryon<sup>2</sup> rightly states that the peculiarities upon which the three last sections are based are shared more or less by several other species, and that the recognition of these sections could scarcely serve a useful purpose. He adopted Pfeiffer's classification, except that he made *Ammonoceras* a subdivision of *Artemon*, united *Scolodonta* with it, and included *Odontartemon* as a third subdivision of *Eustreptaxis*.

The next attempt to revise the genus was by Bourguignat,<sup>3</sup> who separated all the species with a non-deviated axis as not only alien to *Streptaxis*, but as having no affinity with the Testacellidæ. For these species he created a new family, Artemonidæ, to be placed between Helicariionidæ and Helicidæ, and to contain nine genera, viz.:—1, *Gibbonsia*, with one species, *S. gigas*; 2, *Tayloria*, for *S. ventrosa* and *S. Jouberti*; 3, *Happia*, new name for *Ammonoceras*, Pfr. (pre-occupied in Cephalopoda), type *H. vitrina*; 4, *Scolodonta*, Doering, type *S. Semperi*; 5, *Drepanostomella*, with one species, *S. ammonitifformis*; 6, *Colpanostoma*, one species, *S. Leroyi*; 7, *Artemon*, Beck, type *S. candidus*; 8, *Discartemon*, Pfr., type *S. discus*; and 9, *Aleidia*, type *S. Cypsele*. Since these new genera are entirely based

<sup>1</sup> Mag. Nat. Hist., n.s., vol. i, p. 484.<sup>2</sup> Man. Conch., ser. II, vol. i, p. 57.<sup>3</sup> Mollusques de l'Afrique équatoriale, 1889, p. 36.

on conchological characters, without corroboration of anatomical details, their value is extremely doubtful; moreover, the removal of these species from the Testacellidæ without anatomical evidence is unwarranted. I would make exception in favour of *Colpanostoma* and *Tayloria*, which are here retained as subgenera, and this notwithstanding Dr. von Martens' conjectures that they may be juvenile states of *Streptaxis*.<sup>1</sup> Specimens of *Colpanostoma Leroyi* in my possession do not bear out this conjecture, for they are undoubtedly mature. Bourguignat also reconstructed the genus *Streptaxis*, raising it to family rank; after eliminating his Artemonidæ he split up the remainder into four genera, viz:—1, *Streptaxis*, Gray, with *S. contusus* as type, containing "*S. Funcki*, *S. epistylium*, *S. Dunkeri*, etc.," and doubtfully *S. nobilis*, *S. Blaudingiana*, *S. rimata*, *S. Mourovia*, etc.; 2, *Gonaxis*, Taylor (= *Eustreptaxis*, Pfr. + *Lamelliger* and *Oophana*, Ancy), containing most of the African species and the American and Asiatic forms with parietal teeth; 3, *Marconia*, Bourg., containing *Ennea lata*, Smith, and *E. vitrea*, Morel., with *Streptaxis enneoides*, Mart., and two new species, *S. gibbosa* and *S. recta*; and 4, *Edentulina*, Pfr., which is considered a section of *Ennea* by Dr. von Martens. Further additions to the group proposed by Mons. J. Mabile were: the genus *Pseudartemon*,<sup>2</sup> for a single species, *P. Bourguignati*, and the genus *Stremmatopsis*,<sup>3</sup> also for a single species, *S. Poirieri*. Here, again, we have no anatomical evidence, and since the shell of the former sufficiently resembles *Scolodonta* to warrant its inclusion in that genus, I am constrained to reject *Pseudartemon*, while *Stremmatopsis* appears to me only of sectional value, and I have consequently added it as a fourth subsection of *Eustreptaxis*. Dr. von Möllendorff created a section, *Micrartemon*, for a species from the Philippine Islands,<sup>4</sup> the inclusion of which in *Streptaxis* appears to me somewhat dubious, but pending an examination of the soft parts it may be advisable to retain it. Finally, Dr von Martens proposed a section, *Imperturbatia* (allied to *Artemon*), for the reception of four new species from the Seychelles.<sup>5</sup>

The distribution of *Streptaxis* is somewhat peculiar. The species range over the warmer parts of Asia, Africa, and South America. Asia is the richest in species, being credited with no less than 77, distributed as follows:—India and Burma 24, Indo-China 25, China 13, including one doubtful record, Ceylon 4, Malaya, including the Samui Islands, 11, Nicobar Islands 1, Andaman group 3, and Philippine Islands 1. Africa, including the six Mascarene Island shells, has 48 species, of which four are doubtful records. In East Africa they range from Somali in the north to Zanzibar in the south, while they extend westwards through British Central Africa and the Congo to the Cameroons and the Guinea Coast. South America has only 37 species, including three doubtful records; they range from Brazil to Guiana,

<sup>1</sup> Deutsch. Ost-Afrika, vol. iv (1897), p. 32.

<sup>2</sup> Bull. Soc. Malac. Fr., vol. iv (1887), p. 126.

<sup>3</sup> Loc. cit., p. 132.

<sup>4</sup> Berichte Senck. Naturf. Ges., 1890, p. 190.

<sup>5</sup> Mittl. Zool. Mus. Berlin, vol. i (1898), p. 12.

Venezuela, and as far north as Trinidad and Barbados, while on the west coast they extend from Peru to New Grenada. One species is of unknown habitat.

The genera *Happia* and *Scolodonta* are almost confined to South America, ranging from Argentina in the south, through Brazil, as far north as St. Vincent and Grenada in the West Indies, and on the west coast from Chili to Ecuador; one species is found in the Comoro Islands and one in Tonkin.

No fossil forms of *Streptaxis* are known. Mr. Sykes and Mr. Bullen Newton have kindly called my attention to the fact that *Omphaloptyx supracostata*, Boettger, from the Upper Oligocene, is supposed to be allied to *Streptaxis*. A statement to this effect appears in some books, notably Fischer's *Manuel de Conchyliologie* (1883, p. 453) and Tryon's *Structural and Systematic Conchology* (vol. iii, 1884, p. 16); but a reference to Boettger's original words<sup>1</sup> shows it is to *Ennea*, and not to *Streptaxis*, that *Omphaloptyx* is considered to be related.

Several species having remained unfigured, I have thought it useful to figure these so far as possible, and Mr. E. A. Smith, with his customary courtesy, has given me access to some of Pfeiffer's types in the British Museum. These are *S. Leonensis*, *S. eburneus*, *S. gibbosus*, and *S. sinuosus*. Two other unfigured species are *S. Anceyi*, Mab., and *S. diplodon*, Mlldff., which I am also enabled to illustrate from specimens in the British Museum.

While looking over the collection at the British Museum I found a tablet with two shells labelled *S. subbulbulus*, Mlldff., apparently an unpublished name. Dr. von Möllendorff informs me that he has no recollection of the shells, and since Mr. Smith states that they were received from Mr. Fruhstorfer, it would appear that the latter has attached the above manuscript name to them without Dr. von Möllendorff's authority. I append a short diagnosis of this species. [P.S.—It has since been described by Dr. von Möllendorff<sup>2</sup> as a new subspecies of *S. Siamensis*, Pfr., but I still consider it worthy of specific rank.]

#### STREPTAXIS SUBBULBULUS, Mlldff. Pl. IV, Figs. 16–18.

Shell whitish, diaphanous, narrowly umbilicated, depressed, sub-cylindrical, strongly costulate above, shining below, strongly costulate inside the umbilicus; whorls  $6\frac{1}{2}$ , rapidly increasing, the last gibbous behind the constricted aperture; aperture semi-ovate, upper margin sinuate, receding slightly, peristome strongly thickened and reflected; parietal wall with one entering compressed fold, three equidistant conical teeth on the peristome, one on the right margin, two basal. Alt. 9, diam. 8 mm.

*Hab.*—Siam: Hinlap. Two specimens.

Type in the British Museum. The new species resembles *S. bulbulus* in outline, but it is smaller and the teeth on the peristome are differently arranged.

<sup>1</sup> Berichte Senck. Naturf. Ges., 1873–4, p. 64.

<sup>2</sup> Nachr. Blatt. Deutsch. Malak. Ges., 1902, p. 154.

## STREPTAXIS, Gray.

*Streptaxis*, Gray: Mag. Nat. Hist., n.s., vol. i (1837), p. 484.

Shell oval, heliciform, but often oblique, profoundly umbilicated, ridged, striate above, smooth and usually polished below, last whorls usually deviating more or less from the original axis; aperture lunar, with or without teeth, lip slightly thickened and reflected.

The animal has a very long neck and short tail; the superior tentacles are narrow and long; the labial palpi narrow, as long as the inferior tentacles; genital orifice on the right side, distant from the superior tentacle, and closer to the respiratory orifice. Dentition similar to that of *Glandina*; central tooth simple (Tryon).

Section I. *EUSTREPTAXIS*, Pfeiffer.

Axis of the shell oblique, owing to the fact that some of the whorls are inclined obliquely to the rest.

Subsection 1. *Edentula* (= b. *genuina*), Pfeiffer.

Mon. Helic., vol. i (1848), p. 3, = *Artemon*, Pfr., Malak. Blätt., vol. ii (1856), p. 172, in part, not *Artemon*, Beck. + *GONAXIS*, Taylor, Journ. Conch., vol. i (1877), p. 252. + *LAMELLIGER* and *OOPHANA*, Ancy, Le Naturaliste, 1882, p. 399. + *ALCIDIA*, Bourg., Moll. Afr. équat., 1889, p. 46. + *MARCONIA*, Bourg., op. cit., p. 135.

I. *STREPTAXIS NOBILIS*, Gray.

*Streptaxis nobilis*, Gray: Mag. Nat. Hist., n.s., vol. i (1837), p. 485, figs. 60a, b; Trochel, Wieg. Arch. Naturg., vol. iv, pt. 2 (1838), p. 274; Philippi, Abbild. & Beschr., vol. i (1843), p. 48; Pfr., Mon. Helic., vol. i (1848), p. 4; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. iii (1854), p. 395, pl. exlix, figs. 10, 11; Chenu, Man. de Conch., vol. i (1859), p. 451, fig. 3361; Tryon, Man. Conch., ser. II, vol. i (1885), p. 67, pl. xiii, figs. 53, 54, 61, 62.

*Helix Monrovia*, Rang: Ann. Sci. Nat., vol. xxiv (1831), p. 16, pl. iii, fig. 3; Philippi, Abbild. & Beschr., vol. ii (1846), *Helix*, p. 85, pl. vii, fig. 9; Pfr., Mon. Helic., vol. i (1848), p. 85.

*Streptaxis Monrovia*, Mart.: Malak. Blätt., vol. xiii (1866), p. 104; Dohrn, tom. cit., p. 136, vol. xxii (1875), p. 203; Chemn., Conch. Cab., 2nd ed., *Helix*, vol. iii (1853), p. 355, pl. exxxvi, figs. 5, 6; Pfr., Mon. Helic., vol. iii (1853), p. 81. (Status juvenilis.)

*Streptaxis Monrovia*, Dohrn: Nov. Conch., vol. v (1877), p. 26, pl. exlii, figs. 1-6.

*Helix Blandingiana*, Lea: Trans. Amer. Phil. Soc., ser. II, vol. vii (1841), p. 459, pl. xii, fig. 9.

*Streptaxis Blandingiana*, Pfr.: Mon. Helic., vol. i (1848), p. 4.

*Helix Reclusiana*, Petit: Revue Zool., 1841, p. 99; Fér., Hist., 1851, p. 393, pl. xcv, fig. 1.

*Streptaxis Reclusiana*, Pfr.: Symb., vol. ii (1842), p. 110; Philippi, Abbild. & Beschr., vol. ii (1846), *Helix*, p. 128, pl. viii, fig. 3;

Pfr., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. i (1853), p. 18, pl. cii, figs. 10-12; id., Mon. Helic., vol. i (1848), p. 6; id., Nov. Conch., vol. v (1877), p. 27, pl. cxlii, fig. 2.

*Streptaxis Recluziana*, Pfr.: Mon. Helic., vol. v (1868), p. 440; Tryon, Man. Conch., ser. II, vol. i (1885), p. 67, pl. xiii, figs. 41, 42.

*Streptaxis rimata*, Pfr.: Zeit. Malac., vol. iv (1847), p. 48; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. ii (1853), p. 16, pl. ciii, figs. 1-3; id., Mon. Helic., vol. i (1848), p. 5; vol. iii (1853), p. 286; id., Nov. Conch., vol. v (1877), p. 27, pl. cxlii, fig. 4; Tryon, Man. Conch., ser. II, vol. i (1885), p. 67, pl. xiii, fig. 68.

*Streptaxis rimatus*, Pfr.: Mon. Helic., vol. v (1868), p. 440.

*Hab.*—Liberia (Rang); Guinea (Petit); Sierra Leone (Morelet).

## 2. *STREPTAXIS RECTUS*, Bourguignat.

*Marconia recta*, Bourg.: Moll. Afr. équat., 1889, p. 138, pl. vii, figs. 4, 5.

*Ennea (Edentulina) recta*, Mart.: Deutsch. Ost-Afr., vol. iv (1897), p. 14.

*Hab.*—East Africa: Usagara, Ugogo, Ukimbu.

### 2a. Var. *LATULA*, Martens.

*Ennea (Edentulina) latula*, Mart.: Nachr. Blatt. Deutsch. Malak. Ges., 1895, p. 175.

*Ennea (Edentulina) recta*, var. *latula*, Mart.: Deutsch. Ost-Afr., vol. iv (1897), p. 14, pl. ii, fig. 8.

*Hab.*—Butumbi, south of Albert Edward Nyanza.

## 3. *STREPTAXIS MARCONI*, Gude, nom. nov.

*Marconia gibbosa*, Bourg.: Moll. Afr. équat., 1889, p. 137, pl. vii, figs. 6, 7. (Not *Streptaxis gibbosus*, Pfr.)

*Ennea (Edentulina) gibbosa*, Mart.: Deutsch. Ost-Afr., vol. iv (1897), p. 14.

*Hab.*—East Africa: Usagara, Ugogu.

## 4. *STREPTAXIS LATUS*, Smith.

*Ennea lata*, Smith: Proc. Zool. Soc., 1880, p. 347, pl. xxxi, fig. 4.

*Gibbus (Edentulina) latus*, Tryon: Man. Conch., ser. II, vol. i (1885), p. 84, pl. xvii, figs. 34, 35.

*Marconia lata*, Bourg.: Moll. Afr. équat., 1889, p. 136.

*Ennea (Edentulina) lata*, Mart.: Deutsch. Ost-Afr., vol. iv (1897), p. 14.

*Hab.*—East Africa: between Lake Tanganyika and Zanzibar, Usagara.

## 5. *STREPTAXIS TRANSLUCIDUS*, Dupuys & Putzeys.

*Streptaxis translucidus*, Dup. & Putz.: Bull. Séances Soc. Roy. Malac. Belg., vol. xxxvi, 1901 (1902), p. li, fig. 21.

*Hab.*—Congo Free State: Nseudwe.

## 6. STREPTAXIS GAUDIONI, Dupuys &amp; Putzeys.

*Streptaxis Gaudioni*, Dup. & Putz.: Bull. Séances Soc. Roy. Malac. Belg., vol. xxxvi, 1901 (1902), p. lii, fig. 22.

*Hab.*—Congo Free State: Nseudwe.

## 7. STREPTAXIS VITREUS, Morelet.

*Ennea vitrea*, Morel.: Voyage Welwitsch, 1868, p. 84, pl. ii, fig. 3.

*Ennea (Edentulina) vitrea*, Pfr.: Mon. Helic., vol. vii (1876), p. 499.

*Gibbus (Edentulina) vitreus*, Tryon: Man. Conch., ser. II, vol. i (1885), p. 84, pl. xvii, fig. 33.

*Hab.*—Angola.

## 8. STREPTAXIS CRAVENI, Smith.

*Streptaxis Craveni*, Smith: Ann. & Mag. Nat. Hist., ser. v, vol. vi (1880), p. 280, pl. xxxii, fig. 5; Tryon, Man. Conch., ser. II, vol. i (1885), p. 67, pl. xvi, figs. 6, 7; Mart., Deutsch. Ost-Afr., vol. iv (1897), p. 31, pl. ii, figs. 35, 36.

*Gonaxis Craveni*, Bourg.: Moll. Afr. équat., 1889, p. 134.

*Hab.*—East Africa: Mombasa, Usambara, Usagara.

## 9. STREPTAXIS SUTURALIS, Martens.

*Streptaxis suturalis*, Mart.: Malak. Blätt., vol. vi (1860), p. 19; Pfr., Mon. Helic., vol. v (1868), p. 439; Mart., Binnen-Moll. Venezuela's, 1873, p. 165, pl. ii, fig. 3; Tryon, Man. Conch., ser. II, vol. i (1885), p. 68, pl. xii, fig. 23.

*Hab.*—New Grenada.

## 10. STREPTAXIS DUNKERI, Pfeiffer.

*Streptaxis Dunkeri*, Pfr.: in Philippi, Abbild. & Beschr., vol. ii (1845), p. 7, *Helix*, pl. vi, fig. 15; id., Mon. Helic., vol. i (1848), p. 5; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. ii (1853), p. 16, pl. cii, figs. 1-3 & figs. 35, 36 (juv.); Mart., Ost-Asien, Zool., vol. ii (1867), p. 7, pl. xix, fig. 3; Hidalgo, Journ. de Conch., 1870, p. 39; Tryon, Man. Conch., ser. II, vol. i (1885), p. 68, pl. xiii, figs. 57, 62, 63.

*Hab.*—Brazil: Rio Janeiro (Pfr.); Coreobado (Hid.).

## 10a. Var. CLAUSA, Löbbecke.

*Streptaxis Dunkeri*, var. *clausa*, Löbb.: Nachr. Blatt. Deutsch. Malak. Ges., 1881, p. 50; Jahrb. Deutsch. Malak. Ges., vol. ix (1882), p. 4, pl. i, figs. 4, 5; Tryon, Man. Conch., ser. II, vol. i (1885), p. 68, pl. xiii, figs. 65-67.

## 11. STREPTAXIS FUNCKI, Pfeiffer.

*Streptaxis Funcki*, Pfr.: Proc. Zool. Soc., 1847, p. 229; id., Mon. Helic., vol. i (1848), p. 436; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. ii (1853), p. 17, pl. ci, figs. 40, 41; pl. ciii, figs. 16, 17 (juv.); Mart., Malak. Blätt., vol. vi (1859), p. 61; id., Binnen-Moll. Venezuela's, 1873, p. 165; Tryon, Man. Conch., ser. II, vol. i (1885), p. 68, pl. xiv, figs. 69-72.

*Hab.*—Venezuela: Merida (Mart.); New Grenada (Pfr.).

12. *STREPTAXIS SUBREGULARIS*, Pfeiffer.

*Streptaxis subregularis*, Pfr.: in Philippi, Abbild. & Besch., vol. ii (1846), p. 127, *Helix*, pl. viii, fig. 12; id., Mon. Helic., vol. i (1848), p. 4; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. ii (1853), p. 15, pl. ci, figs. 36-39; id., Mon. Helic., vol. iv (1859), p. 329; A. D. Brown, Journ. de Conch., 1869, p. 71; Pfr., Mon. Helic., vol. vii (1876), p. 491; Tryon, Man. Conch., ser. II, vol. i (1885), p. 68, pl. xii, figs. 16-18.

*Hab.*—Brazil: Rio Janeiro (Pfr.). U.S. Colombia: Bogota (Pfr.).

13. *STREPTAXIS CONTUSUS*, Férussac.

*Helix (Helicogena) contundata*, Fér.: Prod., 1821, No. 41.

*Helix contusa*, Fér.: Prod., p. 67; Wood, Index, Suppl., 1828, pl. vii, fig. 39; Rang, Ann. Sci. Nat., 1831, p. 5; Desh., Traité Elem. Conch., 1850, pl. lxxxiii, figs. 11, 12; Fér., Hist., 1851, p. 390, pl. xxxi, fig. 1; pl. xxxix B, figs. 5, 6 (with animal); M. E. Gray, Fig. Moll. Anim., vol. iii (1859), pl. cclxxxix, fig. 1.

*Artemon contusus*, Beck: Index, 1838, p. 48.

*Streptaxis contusa*, Gray: Mag. Nat. Hist., n.s., vol. i (1837), p. 484; Sowby., Conch. Man., 2nd ed. (1839), p. 266, figs. 269, 270; Phil., Abbild. & Beschr., vol. ii (1846), p. 127, *Helix*, pl. viii, fig. 1; Pfr., Mon. Helic., vol. i (1848), p. 6; Gould, U.S. Expl. Exped., Moll. (1852), p. 71, pl. v, fig. 70; Pfr., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. ii (1853), p. 17, pl. cii, figs. 4-6; Adams, Genera, vol. ii (1858), p. 185, pl. lxxvii, fig. 1; Chenu, Man de Conch., 1859, p. 450, fig. 3358; Hidalgo, Viaje Pacif. Moluse., pt. i (1869), p. 41; Woodward, Manual, 4th ed. (1880), pl. xii, fig. 6.

*Streptaxis contusus*, Pfr.: Mon. Helic., vol. v (1868), p. 440; Hidalgo, Journ. de Conch., 1870, p. 39; Tryon, Struct. Syst. Conch., vol. iii (1884), pl. xcii, fig. 55; id., Man. Conch., ser. II, vol. i (1885), p. 68, pl. xiv, figs. 76-78; Fischer, Man. de Conch., 1887, pl. xii, fig. 6.

*Hab.*—Brazil: Rio Janeiro; Corcobado (Hidalgo).

14. *STREPTAXIS UBERIFORMIS*, Pfeiffer.

*Streptaxis uberiformis*, Pfr.: Proc. Zool. Soc., 1848, p. 108; Zeit. Malak., vol. v (1848), p. 89; id., Mon. Helic., vol. iii (1853), p. 287; Hidalgo, Journ. de Conch., 1870, p. 39; 1875, p. 128, pl. vii, fig. 8; Tryon, Man. Conch., ser. II, vol. i (1885), p. 68, pl. xiv, fig. 94.

*Artemon uberiformis*, Bourg.: Moll. Afr. équat., 1889, p. 44.

*Hab.*—Brazil: Rio Janeiro (Pfr.); Corcobado (Hidalgo).

15. *STREPTAXIS ALVEUS*, Dunker.

*Streptaxis alveus*, Dunk.: in Phil., Abbild. & Beschr., vol. ii (1845), p. 6, *Helix*, pl. vi, fig. 14; Pfr., Mon. Helic., vol. i (1848), p. 4; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. ii (1853), p. 15, pl. ci, figs. 33-35; Tryon, Man. Conch., ser. II, vol. i (1885), p. 69, pl. xxvii, fig. 11.

*Aloidia alveus*, Bourg.: Moll. Afr. équat., 1889, p. 47.

*Helix contermina*, Reeve: Conch. Icon., *Helix*, 1854, pl. cxci, fig. 1342; Tryon, Man. Conch., ser. II, vol. i (1885), pl. xii, fig. 29.

*Hab.*—Brazil: New Freiburg (Pfr.).

16. STREPTAXIS DESHAYESIANUS, Crosse.

*Streptaxis Deshayesianus*, Crosse: Journ. de Conch., 1863, p. 388; 1867, p. 202, pl. v, fig. 3; Pfr., Mon. Helic., vol. v (1868), p. 441; Hidalgo, Viaje Pacif. Molusc., pt. i (1869), p. 45, pl. iii, figs. 5, 6; id., Journ. de Conch., 1870, p. 39; Tryon, Man. Conch., ser. II, vol. i (1885), p. 69, pl. xiv, fig. 97.

*Hab.*—Brazil: Botafogo; Coreobado (Hidalgo).

17. STREPTAXIS TURBINATUS, Morelet.

*Streptaxis turbinata*, Morel.: Voyage Welwitsch, 1868, p. 58, pl. i, fig. 8.

*Streptaxis turbinatus*, Pfr.: Mon. Helic., vol. vii (1876), p. 492; Tryon, Man. Conch., ser. II, vol. i (1885), p. 69, pl. xii, figs. 24, 25.

*Gonaxis turbinata*, Bourg.: Moll. Afr. équat., 1889, p. 133.

*Hab.*—West Africa: Angola (Morel.).

18. STREPTAXIS DEPLANATUS, Pfeiffer.

*Streptaxis deplanata*, Pfr.: in Phil., Abbild. & Beschr., vol. ii (1845), p. 8; vol. ii (1846), p. 128, *Helix*, pl. viii, fig. 9; id., Mon. Helic., vol. i (1848), p. 6; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. ii (1853), p. 18, pl. cii, figs. 24–26.

*Streptaxis deplanatus*, Pfr.: Mon. Helic., vol. v (1868), p. 440; Tryon, Man. Conch., ser. II, vol. i (1885), p. 69, pl. xiv, figs. 84–86.

*Hab.*—?

19. STREPTAXIS WELWITSCHI, Morelet.

*Streptaxis Welwitschi*, Morel.: Voyage Welwitsch, 1868, p. 57, pl. i, fig. 7; Pfr., Mon. Helic., vol. vii (1876), p. 493; Tryon, Man. Conch., ser. II, vol. i (1885), p. 69, pl. xiv, figs. 73–75.

*Gonaxis Welwitschi*, Bourg.: Moll. Afr. équat., 1889, p. 133.

*Hab.*—West Africa: Angola (Morel.).

20. STREPTAXIS NAUTILUS, Sarasin.

*Streptaxis nautilus*, P. & F. Sarasin: Land-Moll. Celebes, 1899, p. 220, pl. xxvi, fig. 272; pl. xxxi, fig. 307 (anat.).

*Hab.*—North Celebes: Sudara Volcano.

21. STREPTAXIS PROSTRATUS, Gould.

*Streptaxis prostrata* (Gould, MS.), Jay: Catalogue, 1850, p. 117; Gould, Proc. Bost. Soc. Nat. Hist., vol. vi (1856), p. 12; Pfr., Mon. Helic., vol. iv (1859), p. 330; Gould, Otia Conch., 1862, p. 220; Ancey, Bull. Soc. Malac. Fr., vol. v (1888), p. 66.

*Streptaxis prostratus*, Pfr.: Mon. Helic., vol. v (1868), p. 440; Tryon, Man. Conch., ser. II, vol. i (1885), p. 69, pl. xxvii, fig. 9.

*Gonaxis prostratus*, Bourg.: Moll. Afr. équat., 1889, p. 133.

*Hab.*—West Africa: Liberia, Cape Palmas (Gould); Ivory Coast, Grand Bassam (Ancey); Guinea Coast (Morelet).



22. *STREPTAXIS ALBIDUS*, Pfeiffer.

*Streptaxis albida*, Pfr. : Phil., Abbild. & Beschr., vol. ii (1845), p. 7 ; vol. ii (1846), p. 128, pl. viii, fig. 5 ; id., Mon. Helic., vol. i (1848), p. 6 ; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. ii (1853), p. 19, pl. ciii, figs. 4-7.

*Streptaxis albidus*, Pfr. : Mon. Helic., vol. v (1868), p. 440 ; Paetel, Catalogue, 1869, p. 83 ; Tryon, Man. Conch., ser. II, vol. i (1885), p. 70, pl. xiv, figs. 79-81.

*Gonaxis albidus*, Bourg. : Moll. Afr. équat., 1889, p. 133.

*Hab.*—? (Guinea, Paetel).

23. *STREPTAXIS GIBBOSUS*, Pfeiffer. Pl. IV, Figs. 7-9.

*Streptaxis gibbosa*, Pfr. : Mon. Helic., vol. iv (1859), p. 330.

*Streptaxis gibbosus*, Pfr. : Mon. Helic., vol. v (1868), p. 440.

*Gonaxis gibbosus*, Bourg. : Moll. Afr. équat., 1889, p. 133.

*Hab.*—New Grenada : Baranquilla.

Illustrations from the types in the British Museum.

24. *STREPTAXIS CANDEI*, Petit.

*Helix Candei*, Pet. : Rev. Zool., 1842, p. 177.

*Streptaxis Candei*, Phil. : Abbild. & Beschr., vol. i (1843), p. 49.

*Streptaxis Candeaana*, Pfr. : Symb., vol. ii (1842), p. 109 ; id., Mon. Helic., vol. i (1848), p. 7 ; Bland, in C. B. Adams, Contrib. No. 12 (1852), p. 231 ; Pfr., Mon. Helic., vol. iv (1859), p. 331.

*Streptaxis Candeanus*, Pfr. : Mon. Helic., vol. v (1868), p. 441 ; Mart., Binnen-Moll. Venezuela's, 1873, p. 165 ; Tryon, Man. Conch., ser. II, vol. i (1885), p. 70, pl. xiv, figs. 89-91 ; Boettger, Nachr. Blatt. Deutsch. Malak. Ges., 1889, p. 27.

*Gonaxis Candeanus*, Bourg. : Moll. Afr. équat., 1889, p. 133.

*Streptaxis deformis*, Pfr. (not of Fér.) : Mon. Helic., vol. i (1848), p. 7 ; Phil., Abbild. & Beschr., vol. ii (1846), p. 128, *Helix*, pl. viii, fig. 2 ; Pfr., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. ii (1853), pl. ciii, figs. 22-25.

*Helix deformis*, Desh. (not of Fér.) : in Fér., Hist., vol. i (1851), p. 392.

*Helix comboides*, var. *edentula*, Moricand : Mém. Soc. phys. Genève, vol. xi (1846), p. 154.

*Hab.*—Venezuela : Caracas (Mart.). New Grenada : Baranquilla (Bland). Brazil : Bahia (Moric.) ; Pernambuco (Boettger).

25. *STREPTAXIS GIBBONSI*, Taylor.

*Gonaxis Gibbonsi*, J. W. Taylor : Journ. Conch., vol. i (1877), p. 252, pl. ii, fig. 1 ; Bourg., Moll. Afr. équat., 1889, p. 133.

*Streptaxis Gibbonsi*, Tryon : Man. Conch., ser. II, vol. i (1885), p. 70, pl. xiv, figs. 82, 83.

*Ennea (Edentulina) Gibbonsi*, Mart. : Deutsch. Ost-Afr., vol. iv (1897), p. 15.

*Hab.*—Zanzibar.

## 26. STREPTAXIS KIRKI, Dohrn.

*Streptaxis Kirki*, Dohrn : Proc. Zool. Soc., 1865, p. 232; Pfr., Mon. Helic., vol. v (1868), p. 441.

*Streptaxis Kirki*, Mart. : Deutsch. Ost-Afr., vol. iv (1897), p. 32; Smith, Proc. Zool. Soc., 1899, p. 582, pl. xxxiii, figs. 7, 8.

*Gonaxis Kirki*, Bourg. : Moll. Afr. équat., 1889, p. 133.

*Hab.*—Central Africa : Island Mumba in Lake Nyassa (Dohrn); Zomba Plateau (Smith).

## 27. STREPTAXIS MICANS, Putzeys.

*Streptaxis micans*, Putz. : Bull. Séances Soc. Roy. Malac. Belg., vol. xxxiv (1899), p. lv, fig. 2.

*Hab.*—Congo Free State : Waregga.

## 28. STREPTAXIS NSEUDWEENSIS, Putzeys.

*Streptaxis Nseudweensis*, Putz. : Bull. Séances Soc. Roy. Malac. Belg., vol. xxxiv (1899), p. lv, fig. 3.

*Hab.*—Congo Free State : Nseudwe.

## 29. STREPTAXIS KIBWEZIENSIS, Smith.

*Streptaxis Kibweziensis*, Smith : Proc. Malac. Soc., vol. i (1894), p. 165, fig. 1; Mart., Deutsch. Ost-Afr., vol. iv (1897), p. 31.

*Hab.*—British East Africa : Kibwezi, Mt. Kenia.

## 30. STREPTAXIS MAMBOIENSIS, Smith.

*Streptaxis Mamboiensis*, Smith : Ann. & Mag. Nat. Hist., ser. vi, vol. vi (1890), p. 160, pl. vi, fig. 1; Mart., Deutsch. Ost-Afr., vol. iv (1897), p. 31.

*Hab.*—German East Africa : Mamboya; Usambara.

## 31. STREPTAXIS ENNEOIDES, Martens.

*Streptaxis enneoides*, Mart. : Mon. Ber. k. Preuss. Akad. Wiss. Berlin, 1878, p. 295, pl. ii, figs. 5, 6; Tryon, Man. Conch., ser. ii, vol. i (1885), p. 71, pl. xvi, fig. 5; Mart., Deutsch. Ost-Afr., vol. iv (1897), p. 31, pl. ii, fig. 29.

*Marconia enneoides*, Bourg. : Moll. Afr. équat., 1889, p. 137.

*Hab.*—British East Africa : Ukamba; Taveta. German East Africa : Kilima-njaro; Usagara; Ugogo; Ukimbo.

## 32. STREPTAXIS BOTTEGOI, Martens.

*Streptaxis Bottegoi*, Mart. : Ann. Mus. Civ. Genova, ser. ii, vol. xv (1895), p. 63; id., Deutsch. Ost-Afr., vol. iv (1897), p. 31, pl. ii, fig. 28.

*Hab.*—Somali : Giuba.

## 33. STREPTAXIS BLOYETI, Bourguignat.

*Gonaxis Bloyeti*, Bourg. : Moll. Afr. équat., 1889, p. 134, pl. vii, figs. 1-3.

*Streptaxis Bloyeti*, Mart. : Deutsch. Ost-Afr., vol. iv (1897), p. 31.

*Hab.*—East Africa : between Usagara and Ugogo.

34. *STREPTAXIS PUSILLUS*, Martens.

*Streptaxis pusillus*, Mart. : Deutsch. Ost-Afr., vol. iv (1897), p. 32, pl. ii, fig. 31.

*Hab.*—German East Africa : Bukendo.

35. *STREPTAXIS JOHNSTONI*, Smith.

*Streptaxis Johnstoni*, Smith : Proc. Zool. Soc., 1899, p. 581, pl. xxxiii, figs. 5, 6.

*Hab.*—British Central Africa : Nyika Range ; Zomba Plateau.

36. *STREPTAXIS BREVICULUS*, Smith.

*Gibbus (Gonidomus) breviculus*, Smith : Ann. & Mag. Nat. Hist., ser. vi, vol. vi (1890), p. 161, pl. vi, fig. 3.

*Ennea (?) brevicula*, Mart. : Deutsch. Ost-Afr., vol. iv (1897), p. 15.

*Hab.*—East Africa : Usagara.

37. *STREPTAXIS DENTICULATUS*, Dohrn.

*Streptaxis denticulatus*, Dohrn : Jahrb. Deutsch. Malak. Ges., vol. v (1878), p. 152.

*Hab.*—British East Africa : Mombasa.

38. *STREPTAXIS ORDINARIUS*, Smith.

*Streptaxis ordinarius*, Smith : Ann. & Mag. Nat. Hist., ser. vi, vol. vi (1890), p. 160, pl. vi, figs. 2, 3 ; Mart., Deutsch. Ost-Afr., vol. iv (1897), p. 32, 296.

*Hab.*—German East Africa : Mamboya ; between Ukuledi and Umbekuru. Zanzibar : Kokotoni.

39. *STREPTAXIS MOZAMBICENSIS*, Smith.

*Streptaxis Mozambicensis*, Smith : Ann. & Mag. Nat. Hist., ser. v, vol. vi (1880), p. 429 ; id., Proc. Zool. Soc., 1881, p. 280, pl. xxxii, fig. 6 ; Tryon, Man. Conch., ser. II, vol. i (1885), p. 70, pl. xiv, figs. 87, 88 ; Mart., Deutsch. Ost-Afr., vol. iv (1889), p. 32.

*Gonaxis Mozambicensis*, Bourg. : Moll. Afr. équat., 1889, p. 133.

*Hab.*—British East Africa : between Lake Nyassa and the East Coast.

Subsection 2. *Dente parietali munita.*

Pfr. : Mon. Helic., vol. iv (1859), p. 328.

40. *STREPTAXIS OVATUS*, Pfeiffer.

*Streptaxis ovata*, Pfr. : in Phil., Abbild. & Besch., vol. ii (1845), p. 8 ; vol. ii (1846), p. 128, *Helix*, pl. viii, fig. 4 ; id., Mon. Helic., vol. i (1848), p. 7 ; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. ii (1853), p. 20, pl. cii, figs. 7-9.

*Streptaxis ovatus*, Pfr. : Mon. Helic., vol. v (1868), p. 441 ; Tryon, Man. Conch., ser. II, vol. i (1885), p. 71, pl. xiv, figs. 92, 93.

*Gonaxis ovatus*, Bourg. : Moll. Afr. équat., 1889, p. 133.

*Hab.*—? (Gaboon, Bourg.).

## 41. STREPTAXIS DEFLEXUS, Souleyet.

*Helix deflexa*, Soul.: Voyage Bonite, Zool., vol. ii (1852), p. 506, pl. xxviii, figs. 30, 31; M. E. Gray, Fig. Moll. Anim., vol. iii (1859), pl. cclxxxix, fig. 3.

*Streptaxis deflexa*, Pfr.: Mon. Helic., vol. iv (1859), p. 331.

*Streptaxis deflexus*, Pfr.: Mon. Helic., vol. v (1868), p. 441; Tryon, Man. Conch., ser. II, vol. i (1885), p. 71, pl. xiv, figs. 95, 96; Müllendorff, Nachr. Blatt. Deutsch. Malak. Ges., 1898, p. 66.

*Hab.*—Annam: Touranne.

## 42. STREPTAXIS SOLIDULUS, Stoliczka.

*Streptaxis solidulus*, Stol.: Journ. Asiat. Soc. Beng., 1871, p. 166, pl. vii, fig. 10; Pfr., Mon. Helic., vol. vii (1876), p. 493; Hanley & Theob., Conch. Ind., 1879, pl. xcviii, fig. 7; Nevill, Hand-List Ind. Mus., vol. i (1878), p. 3; Tryon, Man. Conch., ser. II, vol. i (1885), p. 71, pl. xiv, fig. 99.

*Hab.*—Burma: Moulmain (Stol.); Pathingtoung (Nevill).

## 43. STREPTAXIS FISCHERI, Morlet.

*Streptaxis Fischeri*, Morlet: Moll. Tonkin, 1886, p. 2; id., Journ. de Conch., 1886, p. 274, pl. xii, fig. 1; Mabille, Bull. Soc. Malac. Fr., vol. iv (1887), p. 128.

*Hab.*—Tonkin.

## 44. STREPTAXIS THEBAWI, Godwin-Austen.

*Streptaxis Thebawi*, G.-A.: Proc. Zool. Soc., 1888, p. 243.

*Hab.*—Burma: Pingoung.

## 45. STREPTAXIS PELLUCENS, Pfeiffer.

*Streptaxis pellucens*, Pfr.: Proc. Zool. Soc., 1862, p. 273, pl. xxxvi, fig. 6; Mouhot's Travels, vol. ii (1864), plate, fig. 6; Mart., Ost-Asien, Zool., vol. ii (1867), p. 85; Pfr., Nov. Conch., vol. iv (1871), p. 29, pl. cxv, figs. 11, 12; Tryon, Man. Conch., ser. II, vol. i (1885), p. 71, pl. xiv, figs. 98-100; Ancy, Bull. Mus. Marseille, vol. i (1899), p. 126, pl. ix, fig. A.

*Gonaxis pellucens*, Bourg.: Moll. Afr. équat., 1889, p. 133.

*Hab.*—Laos (Mouhot); Luang Prabang (Ancy); Siam (Pfr.).

## 45a. Var. MAJOR, Morlet.

*Streptaxis pellucens*, var. *major*, Morlet: Journ. de Conch., 1883, p. 105, pl. iv, fig. 2.

*Hab.*—Cambodia: Elephant and Day Crahom Mountains, Mekong.

## 46. STREPTAXIS MICHAUI, Crosse &amp; Fischer.

*Ennea Michau*, Crosse & Fisch.: Journ. de Conch., 1863, p. 270, pl. x, fig. 4.

*Streptaxis Michau*, Pfr.: Mon. Helic., vol. v (1868), p. 443; Tryon, Man. Conch., ser. II, vol. i (1885), p. 72, pl. xiv, figs. 7, 8; Tenison-Woods, Proc. Linn. Soc. New South Wales, ser. II, vol. iii (1888), p. 1009.

*Oophana Michau*, Ancy: Le Naturaliste, vol. vi (1884), p. 508.

*Hab.*—Poulo Condor.

47. *STREPTAXIS EXACUTUS*, Gould.

*Streptaxis exacutus*, Gould : Proc. Boston Soc. Nat. Hist., vol. vi (1856), p. 13; id., Otia Conch., 1862, p. 220; Pfr., Mon. Helic., vol. v (1868), p. 442; id., Nov. Conch., vol. iv (1871), p. 30, pl. cxv, figs. 13, 14; Nevill, Hand-List Ind. Mus., vol. i (1878), p. 3; Tryon, Man. Conch., ser. II, vol. i (1885), p. 72, pl. xiv, figs. 11, 12.

*Streptaxis exacuta*, Pfr. : Malak. Blätt., vol. iii (1856), p. 258; id., Mon. Helic., vol. iv (1859), p. 331; Hanley & Theob., Conch. Ind., 1879, pl. xviii, figs. 8-10.

*Goniaxis exacutus*, Bourg. : Moll. Afr. équat., 1889, p. 133.

*Hab.*—Burma : Moulmain (Gould).

48. *STREPTAXIS MIRIFICUS*, Möllendorff.

*Streptaxis mirificus*, Mlldff. : Proc. Zool. Soc., 1894, p. 147, pl. xvi, figs. 1, 2.

*Hab.*—Samui Islands, Gulf of Siam.

49. *STREPTAXIS SANKEYI*, Benson.

*Streptaxis Sankeyi*, Bens. : Ann. & Mag. Nat. Hist., ser. III, vol. iii (1859), p. 472; Pfr., Mon. Helic., vol. v (1868), p. 442; Nevill, Hand-List Ind. Mus., vol. i (1878), p. 3; Hanley & Theob., Conch. Ind., 1879, pl. viii, fig. 7; Tryon, Man. Conch., ser. II, vol. i (1885), p. 72, pl. xiv, figs. 2, 3.

*Streptaxis Sankeyanus*, Stol. : Journ. Asiat. Soc. Beng., 1871, pt. 2, p. 167, pl. vii, fig. 14.

*Hab.*—Burma : Moulmain (Bens.); Tenasserim (Nevill).

50. *STREPTAXIS HANLEYANUS*, Stoliczka.

*Streptaxis Hanleyanus*, Stol. : Journ. Asiat. Soc. Beng., 1871, p. 168, pl. vii, fig. 15; Pfr., Mon. Helic., vol. vii (1876), p. 494; Nevill, Hand-List Ind. Mus., vol. i (1878), p. 3; Tryon, Man. Conch., ser. II, vol. i (1885), p. 72, pl. xiv, figs. 9, 10.

*Hab.*—Burma : Moulmain (Stol.); Pakoungtoun (Nevill).

51. *STREPTAXIS SINENSIS*, Gould.

*Streptaxis Sinensis*, Gould : Proc. Boston Soc. Nat. Hist., vol. vi (1859), p. 424; id., Otia Conch., 1862, p. 103; Mart., Ost-Asien, Zool., vol. ii (1867), p. 57; Pfr., Mon. Helic., vol. v (1868), p. 445; Eastlake, Proc. Acad. Philad., 1882, p. 235; Mlldff., Jahrb. Deutsch. Malak. Ges., vol. x (1883), p. 272, pl. x, fig. 7; Tryon, Man. Conch., ser. II, vol. i (1885), p. 73, pl. xv, figs. 32, 33.

*Streptaxis erythroceros*, Mlldff. : Jahrb. Deutsch. Malak. Ges., vol. viii (1881), p. 311.

*Hab.*—China : Hongkong (Gould); Kwan-tung (Mlldff.).

51a, b, c. VARS. *MEDIA*, *ATTENUATA*, and *NANA*, Mlldff.

*Streptaxis Sinensis*, vars. *medius*, *attenuatus*, and *nanus*, Mlldff. : Jahrb. Deutsch. Malak. Ges., vol. x (1883), p. 273.

51d. Var. *Barayi*, Ancey.

*Streptaxis Sinensis*, var. *Barayi*, Ancey: Bull. Mus. Marseille, vol. i (1898), p. 127, footnote.

*Hab.*—Tonkin: Vanbu.

52. *STREPTAXIS COLLINGEI*, Sykes.

*Streptaxis Collingei*, Sykes: Journ. Malac., vol. ix (1902), p. 22, pl. iii, figs. 8–10.

*Streptaxis (Discartemon) Collingei*, Mlldff.: Nachr. Blatt. Deutsch. Malak. Ges., 1902, p. 136.

*Hab.*—Malay Peninsula: Kelantan.

53. *STREPTAXIS SOULEYETIANUS*, Petit.

*Helix Souleyetiana*, Petit: Rev. Zool., 1841, p. 99; Desh., in Fér., Hist., 1851, p. 393, pl. xcv, fig. 2; Chenu, Man. de Conch., 1859, p. 450, fig. 3357.

*Streptaxis Souleyetiana*, Pfr.: Symb., vol. ii (1842), p. 110; Phil., Abbild. & Beschr., vol. i (1843), p. 48; vol. ii (1846), p. 130, *Helix*, pl. viii, fig. 6; Pfr., Mon. Helic., vol. i (1848), p. 8; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. ii (1853), p. 20, pl. cii, figs. 21–23.

*Streptaxis Souleyetianus*, Pfr.: Mon. Helic., vol. v (1868), p. 443; id., Proc. Zool. Soc., 1868, p. 260; Nevill, Hand-List Ind. Mus., vol. i (1878), p. 4; Tryon, Man. Conch., ser. II, vol. i (1885), p. 73, pl. xiv, figs. 4–6.

*Streptaxis (Eustreptaxis) Souleyetianus*, Mart.: Mittl. Mus. Berlin, vol. i (1898), p. 10, pl. ii, figs. 2–4; Wieg., ib., p. 46 (anat.).

*Hab.*—Seychelles: Mahé, Praslin, Silhouette (Mart.).

54. *STREPTAXIS CAMERUNENSIS*, D'Ailly.

*Streptaxis Camerunensis*, D'Ailly: Bihang k. Svensk. Akad. Handl., vol. xx (1896), No. 2, p. 5, pl. i, figs. 1–5.

*Hab.*—Cameroons: Bonge; Bibundi.

55. *STREPTAXIS COSTULATUS*, Möllendorff.

*Streptaxis costulatus*, Mlldff.: Jahrb. Deutsch. Malak. Ges., 1881, p. 312; 1883, p. 275, pl. x, fig. 8; Tryon, Man. Conch., ser. II, vol. i (1885), p. 73, pl. xv, figs. 27, 28.

*Hab.*—China: Kwan-tung.

55a. Var. *SUBCOSTULATA*, Möllendorff.

*Streptaxis costulatus*, subsp. *subcostulatus*, Mlldff.: Nachr. Blatt. Deutsch. Malak. Ges., 1901, p. 65.

*Hab.*—Tonkin: Lang-son; Than-moi.

56. *STREPTAXIS COMBOIDES*, Orbigny.

*Helix comboides*, Orb.: Mag. Zool., vol. v (1835), Moll., p. 3; id., Voyage Amer. mérid., 1837, p. 233, pl. xxiii, figs. 14–18; Chenu, Man. de Conch., 1859, p. 450, fig. 3359; p. 451, fig. 3360.

*Artemon comboides*, Beck: Index, 1838, p. 48.

*Streptaxis comboides*, Gray : Mag. Nat. Hist., n.s., vol. i (1837), p. 484; Phil., Abbild. & Beschr., vol. ii (1846), p. 129, *Helix*, pl. viii, fig. 10; Pfr., Mon. Helic., vol. i (1848), p. 8; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. ii (1853), p. 21, pl. cii, figs. 13-16; Tryon, Struct. Syst. Conch., vol. iii (1884), pl. xcii, fig. 56; id., Man. Conch., ser. II, vol. i (1885), p. 73, pl. xv, figs. 34-36; Ancey, Journ. Conch., vol. vii (1892), p. 90; Mart., Sitz. Ber. Ges. Naturf. Berlin, 1895, p. 33; Paravicini, Boll. Mus. Torino, vol. ix (1894), No. 181, p. 1.

*Gonaxis comboides*, Bourg. : Moll. Afr. équat., 1889, p. 133.

*Hab.*—Bolivia : Prov. Chiquito (Orb.). Brazil : Matto Grosso (Ancey). Paraguay : Rio Apa (Paravicini).

56a. Var. *ELATA*, Moricand.

*Helix comboides*, var. *elata*, Moric. : Mém. Soc. phys. Genève, vol. xi (1846), p. 155.

*Hab.*—Brazil : Bahia.

57. *STREPTAXIS DIESPITER*, J. Mabille.

*Streptaxis diespiter*, Mab. : Bull. Soc. Malac. Fr., vol. iv (1887), p. 127, pl. iii, figs. 7, 8.

*Hab.*—Tonkin.

58. *STREPTAXIS FAGOTI*, J. Mabille.

*Streptaxis Fagoti*, Mab. : Bull. Soc. Malac. Fr., vol. iv (1887), p. 130, pl. iv, figs. 7, 8.

*Hab.*—Tonkin.

59. *STREPTAXIS ANCEYI*, J. Mabille. Pl. IV, Figs. 13-15.

*Streptaxis Anceyi*, Mab. : Bull. Soc. Malac. Fr., vol. iv (1887), p. 128.

*Hab.*—Tonkin.

Illustrations from specimens in the British Museum.

60. *STREPTAXIS BOREALIS*, Heude.

*Streptaxis borealis*, Heude : Moll. terr. Fleuve Bleu, pt. i (1882), p. 79, pl. xviii, fig. 26; Mlldff., Jahrb. Deutsch. Malak. Ges., 1883, p. 274; Tryon, Man. Conch., ser. II, vol. i (1885), p. 73, pl. xv, figs. 19-21.

*Hab.*—China : Ngan-whei.

61. *STREPTAXIS CELEBICUS*, P. & F. Sarasin.

*Streptaxis Celebicus*, Sarasin : Land-Moll. Celebes, 1899, p. 221, pl. xxvi, fig. 273.

*Hab.*—North Celebes : Lokon Volcano.

62. *STREPTAXIS OCCIDENTALIS*, Heude.

*Streptaxis occidentalis*, Heude : Moll. terr. Fleuve Bleu, pt. ii (1885), p. 118, pl. xxx, fig. 23.

*Hab.*—China : Fong-siang.

## 63. STREPTAXIS ORIENTALIS, Heude.

*Streptaxis orientalis*, Heude : Moll. terr. Fleuve Bleu, pt. ii (1885), p. 118, pl. xxx, fig. 22.

*Hab.*—China.

## 64. STREPTAXIS DORRI, Dautzenberg.

*Streptaxis (Eustreptaxis) Dorri*, Dautz. : Journ. de Conch., 1893, p. 160, pl. vii, fig. 3.

*Hab.*—Tonkin : Haiphong.

## 65. STREPTAXIS PETITI, Gould.

*Streptaxis Petiti*, Gould : Boston Journ. Nat. Hist., vol. iv (1844), p. 456, pl. xxiv, fig. 7 ; Phil., Abbild. & Besch., vol. ii (1846), p. 130, *Helix*, pl. viii, fig. 11 ; Pfr., Mon. Helic., vol. i (1848), p. 8 ; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. ii (1853), p. 21, pl. ciii, figs. 8–11 ; Gould, Otia Conch., 1862, p. 183 ; Nevill, Hand-List Ind. Mus., vol. i (1878), p. 3 ; Hanley & Theob., Conch. Ind., 1879, pl. viii, fig. 4 ; Tryon, Man. Conch., ser. II, vol. i (1885), p. 74, pl. xiv, figs. 16–18.

*Hab.*—Burma : Tavoy (Gould) ; Tenasserim (Nevill).

## 66. STREPTAXIS GLABER, Pfeiffer.

*Streptaxis glabra*, Pfr. : Proc. Zool. Soc., 1849, p. 126 ; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. ii (1853), p. 21, pl. exxiv, figs. 4–7 ; id., Mon. Helic., vol. iii (1853), p. 287 ; vol. iv (1859), p. 332.

*Streptaxis glaber*, Pfr. : Mon. Helic., vol. v (1868), p. 445 ; Tryon, Man. Conch., ser. II, vol. i (1885), p. 74, pl. xv, figs. 24–26.

*Gonaxis glaber*, Bourg. : Moll. Afr. équat., 1889, p. 133.

*Hab.*—Venezuela : Puerto Cabello (Pfr.). British Guiana : Demerara (Pfr.).

## 67. STREPTAXIS DEFORMIS, Férussac.

*Helix deformis*, Fér. : Prod., 1821, p. 30, No. 42 ; Hist., vol. i (1850), pl. xxxii A, fig. 1 ; Wood, Index, Suppl., 1828, pl. vii, fig. 40.

*Artemon deformis*, Beck : Index, 1838, p. 48.

*Streptaxis deformis*, Gray : Mag. Nat. Hist., n.s., vol. i (1837), p. 484 ; Chenu, Man. de Conch., 1859, p. 451, fig. 3362 ; Pfr., Mon. Helic., vol. iv (1859), p. 332 ; Guppy, Ann. & Mag. Nat. Hist., ser. III, vol. xvii (1866), p. 53 ; Bland, Amer. Journ. Conch., vol. iv (1869), p. 182 ; Mart., Binnen-Moll. Venezuela's, 1873, p. 165 ; Tryon, Struct. Syst. Conch., vol. iii (1884), pl. xcii, fig. 57 ; id., Man. Conch., ser. II, vol. i (1885), p. 74, pl. xxvii, fig. 10 ; Quelch, Timehri, n.s., vol. iv (1890), p. 37 ; Smith & Feilden, Ann. & Mag. Nat. Hist., ser. VI, vol. viii (1891), p. 251 ; Smith, Journ. Conch., vol. ix (1898), pp. 27, 29, figs. 5, 6 (juv.).

*Hab.*—Venezuela : Caracas (Mart.). Dutch Guiana : Surinam (Pfr.). British Guiana : Demerara (Quelch). Trinidad : Cotoras and other islands in Gulf of Paria (Bland). Barbados (Smith & Feilden).



68. *STREPTAXIS NORMALIS*, Jousseau.

*Streptaxis normalis*, Jouss.: Mém. Soc. zool. Fr., vol. ii (1889), p. 247, pl. ix, figs. 19–21.

*Hab.*—Venezuela: Valencia; San Sebastian.

69. *STREPTAXIS PFEIFFERI*, Zelebor.

*Streptaxis Pfeifferi*, Zel.: Verh. zool. bot. Ges. Wien, vol. xvii (1867), p. 806; vol. xix (1869), p. 875; Pfr., Mon. Helic., vol. v (1868), p. 444; Tryon, Man. Conch., ser. II, vol. i (1885), p. 74, pl. xiv, fig. 13.

*Streptaxis Pfeifferianus*, Stol.: Journ. Asiat. Soc. Beng., vol. xl, pt. 2 (1871), p. 161, pl. viii, fig. 6.

*Hab.*—Nicobar Group: Camorta.

69a. Var. *PUMILIO*, Mörch.

Journ. de Conch., 1876, p. 359; Nevill, Hand-List Ind. Mus., vol. i (1878), p. 2.

*Hab.*—Nicobar: Camorta (Mörch).

69b. Var. *MINOR*, Mörch.

Journ. de Conch., 1876, p. 359; Nevill, Hand-List Ind. Mus., vol. i (1878), p. 2; Godw.-Aust., Proc. Zool. Soc., 1895, p. 443.

*Hab.*—Nicobar: Teressa, Katchal (Mörch); Car Nicobar (Nevill). Andaman Group: Little Andaman (G.-A.).

70. *STREPTAXIS FORTUNEI*, Pfeiffer.

*Streptaxis Fortunei*, Pfr.: Proc. Zool. Soc., 1854, p. 149; id., Mon. Helic., vol. iv (1859), p. 332.

*Hab.*—China: Shanghai.

71. *STREPTAXIS PORRECTUS*, Pfeiffer.

*Streptaxis porrectus*, Pfr.: Proc. Zool. Soc., 1862, p. 273; Mart., Ost-Asien, Zool., vol. ii (1867), p. 85; Pfr., Mon. Helic., vol. v (1868), p. 442; Ancey, Bull. Mus. Marseille, vol. i (1899), p. 127.

*Hab.*—Cambodia (Pfr.); Siam (Mart.). Laos: Louang Prabang (Ancey).

72. *STREPTAXIS MAUGERÆ*, Gray.

*Streptaxis Maugeræ*, Gray: Mag. Nat. Hist., n.s., vol. i (1837), p. 486, figs. 60c, 60d; Phil., Abbild. & Beschr., vol. i (1843), p. 48; Pfr., Mon. Helic., vol. i (1848), p. 8; Morelet, Voyage Welwitsch, 1868, p. 45.

*Hab.*—Sierra Leone (Gray); Guinea (Morel.).

73. *STREPTAXIS ELONGATUS*, Fulton.

*Streptaxis elongatus*, Fulton: Proc. Malac. Soc., vol. iii (1899), p. 302, fig. 2.

*Hab.*—? [? East Africa].

## 74. STREPTAXIS SINUOSUS, Pfeiffer. Pl. IV, Figs. 10-12.

*Streptaxis sinuosa*, Pfr. : Proc. Zool. Soc., 1861, p. 23; id., Malak. Blätt., vol. vii (1861), p. 239.

*Streptaxis sinuosus*, Pfr. : Mon. Helic., vol. v (1868), p. 443.

*Hab.*—Cochin China.

The illustrations from the types in the British Museum.

## 75. STREPTAXIS SCHWEITZERI, Dohrn.

*Streptaxis Schweitzeri*, Dohrn : Jahrb. Deutsch. Malak. Ges., 1878, p. 153.

*Hab.*—Liberia.

Subsection 3. *Odontartemon*, Pfeiffer.

Malak. Blätt., vol. ii (1856), p. 172. (Pariete aperturali et peristomate armatis: a, Ovatae. Pfr. : Mon. Helic., vol. iv, 1859, p. 328.)

## 76. STREPTAXIS DECIPIENS, Crosse.

*Streptaxis decipiens*, Crosse : Journ. de Conch., 1865, p. 228; 1867, p. 202, pl. v, fig. 4; Pfr., Mon. Helic., vol. v (1868), p. 445; Tryon, Man. Conch., ser. II, vol. i (1885), p. 75, pl. xv, fig. 44; Ancey, Journ. Conch., vol. vii (1892), p. 90.

*Hab.*—Chili (Crosse). Brazil: prov. Matto Grosso (Ancey).

## 77. STREPTAXIS BURMANICUS, W. T. Blanford.

*Streptaxis Burmanicus*, W. T. Blanf. : Journ. Asiat. Soc. Beng., 1865, pt. ii, p. 81; Stoliczka, op. cit., 1871, p. 163, pl. vii, figs. 5-7; Pfr., Mon. Helic., vol. v (1868), p. 444; Nevill, Hand-List Ind. Mus., vol. i (1878), p. 2; Tryon, Man. Conch., ser. II, vol. i (1885), p. 75, pl. xiv, fig. 14.

*Streptaxis Birmanica*, Hanley & Theob. : Conch. Ind., 1876, p. 4, pl. viii, fig. 10 (not fig. 5 as cited).

*Hab.*—Burma : Arracan, Toongoop (Blanf.), Rangoon.

## 78. STREPTAXIS BOMBAX, Benson.

*Helix bombax*, Bens. : Ann. & Mag. Nat. Hist., ser. III, vol. iii (1859), p. 186; Mart., Malak. Blätt., vol. vi (1859), p. 6; Pfr., Mon. Helic., vol. v (1868), p. 151.

*Streptaxis*, junior, Stoliczka : Journ. Asiat. Soc. Beng., 1871, p. 167; Pfr., Mon. Helic., vol. vii (1876), p. 159.

*Streptaxis bombax*, Hanley & Theob. : Conch. Ind., 1870, pl. xxxi, figs. 1, 4 (juv.); 1875, pl. clvi, fig. 9; Theob., Journ. Asiat. Soc. Beng., 1876, p. 187, pl. xiv, fig. 6.

*Hab.*—Burma : Moulmain.

## 79. STREPTAXIS LEVIS, W. T. Blanford.

*Streptaxis levis*, W. T. Blanf. : Proc. Zool. Soc., 1899, p. 765, pl. 1, figs. 11, 12.

*Hab.*—Burma : Tenasserim.

80. *STREPTAXIS TROBERTI*, Petit.

*Helix Troberti*, Petit: Rev. Zool., 1841, p. 100.

*Streptaxis Troberti*, Pfr.: Symb., vol. ii (1842), p. 110; id., Mon. Helic., vol. i (1848), p. 10; Morelet, Voyage Welwitsch, 1868, p. 58, pl. i, fig. 6; Tryon, Man. Conch., ser. II, vol. i (1885), p. 75, pl. xv, fig. 57; Ancey, Bull. Soc. Malac. Fr., vol. v (1888), p. 66.

*Lamelliger Troberti*, Ancey: Le Naturaliste, vol. vi (1884), p. 508.

*Gonaxis Troberti*, Bourg.: Moll. Afr. équat., 1889, p. 133.

*Hab.*—Sierra Leone: Fourecariah (Ancey). Angola: Golungo-alta (Morel.). Guinea (Petit).

81. *STREPTAXIS ANDAMANICUS*, Benson.

*Streptaxis Andamanica*, Bens.: Ann. & Mag. Nat. Hist., ser. III, vol. vi (1860), p. 192; Hanley & Theob., Conch. Ind., 1876, p. 4, pl. viii, fig. 6.

*Streptaxis Andamanicus*, Pfr.: Mon. Helic., vol. v (1868), p. 444; Nevill, Hand-List Ind. Mus., vol. i (1878), p. 2; Tryon, Man. Conch., ser. II, vol. i (1885), p. 75, pl. xiv, figs. 1, 15; Godw.-Aust., Proc. Zool. Soc., 1895, p. 443.

*Hab.*—Andaman Group: Great Cocos, Little Cocos (Nevill). South Andaman: Port Blair (G.-A.).

82. *STREPTAXIS BLANFORDIANUS*, Theobald.

*Streptaxis Blanfordianus*, Theobald: Journ. Asiat. Soc. Beng., 1865, p. 245; Stoliczka, op. cit., 1871, p. 163, pl. vii, figs. 8, 9; Pfr., Mon. Helic., vol. vii (1876), p. 494; Tryon, Man. Conch., ser. II, vol. i (1885), p. 75, pl. xv, figs. 22, 23; Godw.-Aust., Proc. Zool. Soc., 1895, p. 443.

*Streptaxis Blanfordi*, Hanley & Theob.: Conch. Ind., 1876, p. 4, pl. viii, fig. 5 (not fig. 10 as cited); Nevill, Hand-List Ind. Mus., vol. i (1878), p. 2.

*Hab.*—Burma: Pegu; Aracan (Nevill). Shan States (Nevill). Andaman Group: Cocos I., var. (G.-A.).

83. *STREPTAXIS OBTUSUS*, Stoliczka.

*Streptaxis obtusus*, Stol.: Journ. Asiat. Soc. Beng., 1871, p. 166, pl. vii, figs. 11–13 (shell), pl. viii, figs. 1–4 (anat.); Pfr., Mon. Helic., vol. vii (1876), p. 495; Tryon, Man. Conch., ser. II, vol. i (1885), p. 76, pl. xv, fig. 45.

*Hab.*—Burma: Moulmain (Stol.).

84. *STREPTAXIS FUCHSIANUS*, Gredler.

*Streptaxis Fuchsianus*, Gredl.: Jahrb. Deutsch. Malak. Ges., 1881, p. 16, pl. i, fig. 2; Heude, Moll. terr. Fleuve Bleu, pt. ii (1882), p. 78, pl. xx, fig. 30; Tryon, Man. Conch., ser. II, vol. i (1885), p. 76, pl. xv, figs. 39, 40.

*Hab.*—China: prov. Hu-nan.

## 85. STREPTAXIS BIDENS, Möllendorff.

*Streptaxis bidens*, Mülldff. : Nachr. Blatt. Deutsch. Malak. Ges., 1883, p. 67 ; id., Jahrb. Deutsch. Malak. Ges., 1883, p. 276, pl. x, fig. 9 ; Tryon, Man. Conch., ser. II, vol. I (1885), p. 76, pl. xv, figs. 37, 38.  
*Hab.*—China : Island Hainan.

## 86. STREPTAXIS TRIDENS, Möllendorff.

*Streptaxis tridens*, Mülldff. : Nachr. Blatt. Deutsch. Malak. Ges., 1898, p. 67.  
*Hab.*—Annam : Boloven.

## 87. STREPTAXIS DISTORTUS, Jonas.

*Helix (Streptaxis) distorta*, Jonas : in Phil., Abbild. & Beschr., vol. I (1843), p. 48, *Helix*, pl. III, fig. 3.  
*Streptaxis distorta*, Pfr. : Symb., vol. III (1846), p. 52 ; id., Mon. Helic., vol. I (1848), p. 10 ; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. II (1853), p. 23, pl. ciii, figs. 18–21.  
*Streptaxis distortus*, Pfr. : Mon. Helic., vol. V (1868), p. 447 ; Tryon, Man. Conch., ser. II, vol. I (1885), p. 76, pl. xv, figs. 58–60.  
*Gonaxis distortus*, Bourg. : Moll. Afr. équat., 1889, p. 133.  
*Hab.*—Guinea (Jonas) ; Island Rodriguez (Pfr.).

## 88. STREPTAXIS PEROTETI, Petit.

*Helix Peroteti*, Petit : Rev. Zool., 1841, p. 100 ; Hanley & Theob., Conch. Ind., 1876, p. 40, pl. xviii, figs. 5, 6.  
*Helix (Streptaxis) Perroteti*, Phil. : Abbild. & Beschr., vol. I (1843), p. 48.  
*Streptaxis Perroteti*, Pfr. : Symb., vol. II (1842), p. 110 ; id., Mon. Helic., vol. I (1848), p. 9.  
*Streptaxis Perrotteti*, Pfr. : Mon. Helic., vol. III (1853), p. 288 ; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. III (1854), p. 394, pl. cxliii, figs. 29–31.  
*Streptaxis Perrotteti*, Nevill : Hand-List Ind. Mus., vol. I (1878), p. 4 ; Tryon, Man. Conch., ser. II, vol. I (1885), p. 76, pl. xv, figs. 68, 69.  
*Hab.*—India : Nilgherries (Petit) ; Ootacamund ; Coonoor (Nev.) ; Anamullay Hills, var. (Nevill).

## 88a. Var. FOOTEI, W. T. Blanford.

*Streptaxis Perroteti*, var. *Footei*, Blanf. : Journ. Asiat. Soc. Beng., 1861, p. 358, pl. II, fig. 6.  
*Streptaxis Footei*, Pfr. : Mon. Helic., vol. V (1868), p. 448.  
*Hab.*—India : Patchamullay Hills (Blanf.).

## 89. STREPTAXIS WATSONI, W. T. Blanford.

*Streptaxis Watsoni*, Blanf. : Journ. Asiat. Soc. Beng., 1860, p. 126 ; Pfr., Mon. Helic., vol. V (1868), p. 447 ; Hanley & Theob., Conch. Ind., 1876, pl. viii, fig. 8 ; Nevill, Hand-List Ind. Mus., vol. I (1878), p. 4 ; Tryon, Man. Conch., ser. II, vol. I (1885), p. 77, pl. xv, fig. 64.  
*Hab.*—India : Koondah Hills, Nilgherries (Blanf.). Sispara ; var. Ootacamund ; var. Wynaad (Nevill).

90. *STREPTAXIS ABERRATUS*, Souleyet.

*Helix aberrata* (Soul.), Petit: Rev. Zool., 1841, p. 101; Souleyet, Voyage Bonite, Zool., vol. ii (1853), p. 505, pl. xxviii, figs. 32-34; M. E. Gray, Figs. Moll. Anim., vol. iii (1859), pl. cclxxxix, fig. 4.

*Streptaxis aberrata*, Pfr.: Symb., vol. ii (1842), p. 109; Phil., Abbild. & Besch., vol. i (1843), p. 49; vol. ii (1846), p. 129, *Helix*, pl. viii, fig. 7; Pfr., Mon. Helic., vol. i (1848), p. 10; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. i (1853), p. 24, pl. cii, figs. 27-30.

*Streptaxis aberratus*, Pfr.: Mon. Helic., vol. v (1868), p. 448; Tryon, Man. Conch., ser. II, vol. i (1885), p. 77, pl. xv, figs. 65-67; Mlldff., Nachr. Blatt. Deutsch. Malak. Ges., 1898, p. 66.

*Gonaxis aberratus*, Bourg.: Moll. Afr. équat., 1889, p. 133.

*Hab.*—Annam: Touranne (Petit).

91. *STREPTAXIS THEOBALDI*, Benson.

*Streptaxis Theobaldi*, Bens.: Ann. & Mag. Nat. Hist., ser. III, vol. iii (1859), p. 187; Pfr., Malak. Blätt., vol. vi (1859), p. 35; id., Mon. Helic., vol. v (1868), p. 449; Hanley & Theob., Conch. Ind., 1876, pl. viii, fig. 9; Godw.-Aust., Journ. Asiat. Soc. Beng., 1876, pl. viii, fig. 15; Nevill, in Anderson, Zool. Res. Exped. Yunnan, vol. i (1878), p. 885; Tryon, Man. Conch., ser. II, vol. i (1885), p. 77, pl. xvi, figs. 86 & 14.

*Hab.*—India: Khasi Hills, Assam (Pfr.). Burma: Dikrang Valley (G.-A.); Bhamo (Nevill).

92. *STREPTAXIS DAFLAENSIS*, Godwin-Austen.

*Streptaxis Daflaensis*, Godw.-Aust.: Journ. Asiat. Soc. Beng., 1876, p. 317, pl. viii, fig. 14; Tryon, Man. Conch., ser. II, vol. i (1885), p. 77, pl. xv, figs. 74-76.

*Hab.*—India: Dafla Hills (G.-A.).

93. *STREPTAXIS PYRIFORMIS*, Pfeiffer.

*Streptaxis pyriformis*, Pfr.: in Phil., Abbild. & Besch., vol. ii (1845), p. 8; p. 129, *Helix*, pl. viii, fig. 8; id., Mon. Helic., vol. i (1848), p. 10; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. i (1853), p. 24, pl. cii, figs. 31-34; Tryon, Man. Conch., ser. II, vol. i (1885), p. 77, pl. xv, figs. 61-63.

*Streptaxis pyriformis*, Pfr.: Mon. Helic., vol. iv (1859), p. 334.

*Hab.*—Mascarene Islands: Rodriguez.

94. *STREPTAXIS BEDDOMEI*, W. T. Blanford.

*Streptaxis Beddomei* (Nevill, MS.), W. T. Blanf.: Proc. Zool. Soc., 1899, p. 765, pl. 1, figs. 4, 5.

*Hab.*—India: Animalai Hills.

94a. Var. *MAJOR*, Blanf.

*Streptaxis Beddomei*, var. *major*, Blanf.: tom. cit., pl. 1, figs. 6, 7.

*Hab.*—India: Tinnevely Hills.

## 95. STREPTAXIS SCALPTUS, W. T. Blanford.

*Streptaxis scalptus*, W. T. Blanf. : Proc. Zool. Soc., 1899, p. 766, pl. 1, figs. 8-10.

*Hab.*—India: Salem; Mysore.

## 96. STREPTAXIS CUMINGIANUS, Pfeiffer.

*Streptaxis Cumingiana*, Pfr. : Proc. Zool. Soc., 1849, p. 126; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. i (1853), p. 23, pl. cxxiv, figs. 8-11; id., Mon. Helic., vol. iii (1853), p. 288.

*Streptaxis Cumingianus*, Pfr. : Mon. Helic., vol. v (1868), p. 447; Tryon, Man. Conch., ser. II, vol. i (1885), p. 78, pl. xv, figs. 54-56.

*Hab.*—? (Brazil, Tryon).

## 97. STREPTAXIS STREPTODON, Moricand.

*Helix (Streptaxis) streptodon*, Moric. : Journ. de Conch., 1851, p. 369, pl. x, fig. 1.

*Streptaxis streptodon*, Pfr. : Mon. Helic., vol. iii (1853), p. 288; Tryon, Man. Conch., ser. II, vol. i (1885), p. 78, pl. xv, figs. 52, 53.

*Hab.*—Brazil: Bahia (Moric.).

## 98. STREPTAXIS DEJECTUS, Petit.

*Helix (Streptaxis) dejecta*, Petit : Rev. Zool., 1842, p. 176.

*Helix (Helicodonta) comboides*, var. *Brasiliensis*, Moric. : Mém. Soc. phys. Genève, vol. vii (1836), p. 417 (*dejecta*, Moric., et *Chuiquitensis*, Orb., olim). Moric. : tom. cit., p. 418.

*Helix comboides*, var. *Brasiliensis*, Moric. : Mém. Soc. phys. Genève, vol. xi (1846), p. 155.

*Streptaxis dejecta*, Pfr. : Symb., vol. ii (1842), p. 110; Phil., Abbild. & Beschr., vol. ii (1845), p. 7, *Helix*, pl. vi, fig. 17; Pfr., Mon. Helic., vol. i (1848), p. 9; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. ii (1853), p. 22, pl. cii, figs. 17-20.

*Streptaxis dejectus*, Pfr. : Mon. Helic., vol. v (1868), p. 447; G. Pfeffer, Jahrb. Deutsch. Malak. Ges., 1878, p. 70 (anat.); Tryon, Man. Conch., ser. II, vol. i (1885), p. 78, pl. xv, figs. 47-49.

*Gonaxis dejectus*, Bourg. : Moll. Afr. équat., 1889, p. 133.

*Hab.*—Brazil: Bahia.

## 99. STREPTAXIS LAYARDIANUS, Benson.

*Streptaxis Layardiana*, Bens. : Ann. & Mag. Nat. Hist., ser. II, vol. xii (1853), p. 90; Pfr., Mon. Helic., vol. iv (1859), p. 332; Hanley & Theob., Conch. Ind., 1876, pl. xxviii, figs. 1, 4.

*Streptaxis Layardianus*, Pfr. : Mon. Helic., vol. v (1868), p. 445; Tryon, Man. Conch., ser. II, vol. i (1885), p. 75, figs. 22, 23.

*Hab.*—Ceylon.

## 100. STREPTAXIS CINGALENSIS, Benson.

*Streptaxis Cingalensis*, Bens. : Ann. & Mag. Nat. Hist., ser. II, vol. xii (1853), p. 91; Pfr., Mon. Helic., vol. iv (1859), p. 333; Hanley & Theob., Conch. Ind., 1876, pl. xxviii, figs. 2, 3; Tryon, Man. Conch., ser. II, vol. i (1885), p. 78, pl. xv, figs. 50, 51.

*Hab.*—Ceylon.

101. *STREPTAXIS GRACILIS*, O. Collett.

*Streptaxis gracilis*, O. Collett : Proc. Malac. Soc., vol. iii (1898), p. 1, with 3 figures.

*Hab.*—Ceylon : prov. Uva.

102. *STREPTAXIS RAVANÆ*, W. T. Blanford.

*Streptaxis Ravanæ*, W. T. Blanf. : Proc. Zool. Soc., 1899, p. 768, pl. 1, figs. 13–15.

*Hab.*—Ceylon.

103. *STREPTAXIS CANARICUS*, W. T. Blanford.

*Streptaxis Canarica*, W. T. Blanf. : Journ. Asiat. Soc. Beng., 1869, p. 142, pl. xvi, fig. 11 ; Hanley & Theob., Conch. Ind., 1876, pl. clvi, figs. 7, 8.

*Streptaxis Canaricus*, Pfr. : Mon. Helic., vol. vii (1876), p. 497 ; Tryon, Man. Conch., ser. II, vol. i (1885), p. 78, pl. xv, figs. 70–72.

*Hab.*—India : prov. South Canara.

104. *STREPTAXIS SUBACUTUS*, W. T. Blanford.

*Streptaxis subacutus*, W. T. Blanf. : Proc. Zool. Soc., 1899, p. 767, pl. 1, figs. 1–3.

*Hab.*—India : South Canara.

105. *STREPTAXIS SIAMENSIS*, Pfeiffer.

*Streptaxis Siamensis*, Pfr. : Journ. de Conch., 1862, p. 42, pl. vi, fig. 3 ; Mart., Ost-Asien, Zool., vol. ii (1867), p. 85 ; Pfr., Mon. Helic., vol. v (1868), p. 449 ; Tryon, Man. Conch., ser. II, vol. i (1885), p. 79, pl. xv, fig. 73.

*Hab.*—Siam.

105*a*. Var. *DEPRESSA*, Möllendorff.

*Streptaxis Siamensis*, subsp. *depressa*, Mlldff. : Proc. Zool. Soc., 1894, p. 146.

*Hab.*—Island Samui, Gulf of Siam.

106. *STREPTAXIS PACHYGLOTTIS*, Möllendorff.

*Streptaxis pachyglottis*, Mlldff. : Nachr. Blatt. Deutsch. Malak. Ges., 1900, p. 118.

*Hab.*—South Annam.

107. *STREPTAXIS DIPLODON*, Möllendorff. Pl. IV, Figs. 19–21.

*Streptaxis diplodon*, Mlldff. : Nachr. Blatt. Deutsch. Malak. Ges., 1900, p. 118 ; 1901, p. 45.

*Hab.*—South Annam ; Island Baimin. (Illustrations from specimens in the British Museum.)

108. *STREPTAXIS THEÆCOLA*, Heude.

*Streptaxis theæcola*, Heude : Moll. terr. Fleuve Bleu, pt. iii (1890), p. 151, pl. xxxv, fig. 25.

*Hab.*—China : Ou-yan.

## 109. STREPTAXIS SIMONIANUS, Heude.

*Streptaxis Simonianus*, Heude : Moll. terr. Fleuve Bleu, pt. iii (1890), p. 151, pl. xxxv, fig. 26.

*Hab.*—Cochin China : Tay Ninh.

## 110. STREPTAXIS CRISTATELLUS, Möllendorff.

*Streptaxis (Odontartemon) cristatellus*, Mölldf. : Nachr. Blatt. Deutsch. Malak. Ges., 1901, p. 66.

*Hab.*—Tonkin : Manson Mountains.

## 111. STREPTAXIS HEUDEI, Schmacker &amp; Boettger.

*Streptaxis Heudei*, S. & B. : Nachr. Blatt. Deutsch. Malak. Ges., 1891, p. 147, pl. i, fig. 1; Gude, Proc. Malac. Soc., vol. ii (1896), p. 23, fig. 2.

*Hab.*—Formosa.

## 112. STREPTAXIS PAULUS, Gude.

*Streptaxis paulus*, Gude : Proc. Malac. Soc., vol. ii (1896), p. 23, fig. 1.

*Hab.*—? China.

## 113. STREPTAXIS DEPLANCHEI, Drouet.

*Streptaxis Deplanchei*, Drouet : Mém. Soc. Acad. Aube, vol. xxiii (1859), p. 352 (reprint p. 56), pl. i, figs. 6–9; Pfr., Mon. Helic., vol. v (1868), p. 450; Tryon, Man. Conch., ser. ii, vol. i (1885), p. 79, pl. xvi, figs. 80–82.

*Gonaxis Deplanchei*, Bourg. : Moll. Afr. équat., 1889, p. 133.

*Hab.*—French Guiana : Ilet-la-Mère.

## 114. STREPTAXIS CONCINNUS, W. T. Blanford.

*Streptaxis concinnus*, W. T. Blanf. : Journ. Asiat. Soc. Beng., 1880, p. 203, pl. ii, fig. 11; Tryon, Man. Conch., ser. ii, vol. i (1885), p. 79, pl. xvi, figs. 90–92.

*Hab.*—India : Mysore.

## 115. STREPTAXIS PRONUS, W. T. Blanford.

*Streptaxis pronus*, W. T. Blanf. : Journ. Asiat. Soc. Beng., 1880, p. 204, pl. ii, fig. 12; Tryon, Man. Conch., ser. ii, vol. i (1885), p. 79, pl. xvi, figs. 93–95.

*Hab.*—India : Tinnevely.

## 116. STREPTAXIS PERSONATUS, W. T. Blanford.

*Streptaxis personatus*, W. T. Blanf. : in Theob., Cat. Brit. Ind., 1876, p. 33 (nom. nud.); W. T. Blanf., Journ. Asiat. Soc. Beng., 1880, p. 202, pl. ii, fig. 10; Tryon, Man. Conch., ser. ii, vol. i (1885), p. 80, pl. xvi, figs. 83–85.

*Hab.*—India : Madura.

## 117. STREPTAXIS COMPRESSUS, W. T. Blanford.

*Streptaxis compressus*, W. T. Blanf. : in Theob., Cat. Brit. Ind., 1876, p. 33 (nom. nud.); W. T. Blanf., Journ. Asiat. Soc. Beng., 1880, p. 201, pl. ii, fig. 13; Tryon, Man. Conch., ser. ii, vol. i (1885), p. 80, pl. xvi, figs. 96, 97, 100.

*Hab.*—India : Tinnevely.



118. *STREPTAXIS DUGASTI*, Morlet.

*Streptaxis Dugasti*, Morlet : Journ. de Conch., 1892, pp. 82, 315, pl. vii, fig. 5.

*Hab.*—Tonkin.

119. *STREPTAXIS MOUHOTI*, Pfeiffer.

*Streptaxis Mouhoti*, Pfr. : Proc. Zool. Soc., 1862, p. 273 ; id., Mon. Helic., vol. v (1868), p. 446.

*Gonaxis Mouhoti*, Bourg. : Moll. Afr. équat., 1889, p. 133.

119a. Var. *JOHSWICHI*, Martens.

*Streptaxis Johswichi*, Mart. : Mon. Ber. Berl. Akad., 1864, p. 528.

*Streptaxis Mouhoti*, Mart. : (not of Pfr.) Ost-Asien, Zool., vol. ii (1867), p. 84, pl. xxii, fig. 22 ; Tryon, Man. Conch., ser. II, vol. i (1885), p. 80, pl. xv, fig. 46.

*Streptaxis Mouhoti*, var. *Johswichi*, Mart. : Zool. Rec., vol. i (1864), Moll., p. 224 ; Pfr., Mon. Helic., vol. v (1868), p. 446 ; vol. vii (1876), p. 496 ; P. Fischer, Bull. Soc. Hist. Nat. Autun, vol. iv (1891), p. 17.

*Hab.*—Siam : Petshaburi.

120. *STREPTAXIS BULBULUS*, Morelet.

*Ennea bulbulus*, Morel. : Rev. Zool., 1862, p. 477 ; Crosse & Fisch., Journ. de Conch., 1863, p. 272, pl. x, fig. 3 ; p. 355, pl. xiv, fig. 5.

*Streptaxis bulbulus*, Pfr. : Mon. Helic., vol. v (1868), p. 445 ; Tryon, Man. Conch., ser. II, vol. i (1885), p. 80, pl. xv, figs. 41-43 ; Tenison-Woods, Proc. Linn. Soc. New South Wales, ser. II, vol. iii (1888), p. 1009.

*Oophana bulbulus*, Ancey : Le Nat., vol. vi (1884), p. 508.

*Streptaxis (Oophana) bulbulus*, Mlldff. : Proc. Zool. Soc., 1894, p. 148.

*Gonaxis bulbulus*, Bourg. : Moll. Afr. équat., 1889, p. 133.

*Hab.*—Pulo Condor (Morel.) ; Island of Samui, Gulf of Siam (Mlldff.).

121. *STREPTAXIS SUBBULBULUS*, Möllendorff. Pl. IV, Figs. 16-18.

*Streptaxis Siamensis*, Pfr., subsp. *subbulbulus*, Mlldff. : Nachr. Blatt. Deutsch. Malak. Ges., 1902, p. 154.

See also *supra*, p. 203.

*Hab.*—Siam : Hinlap.

122. *STREPTAXIS STRANGULATUS*, Möllendorff.

*Streptaxis (Oophana) strangulatus*, Mlldff. : Proc. Zool. Soc., 1894, p. 148, pl. xvi, fig. 5.

*Hab.*—Island of Samui, Gulf of Siam.

123. *STREPTAXIS LEONENSIS*, Pfeiffer. Pl. IV, Figs. 1-3.

*Streptaxis Leonensis*, Pfr. : Mon. Helic., vol. iv (1859), p. 333.

*Hab.*—Sierra Leone.

The illustrations are from the types in the British Museum.

## 124. STREPTAXIS EBURNEUS, Pfeiffer. Pl. IV, Figs. 4-6.

*Streptaxis eburnea*, Pfr. : Proc. Zool. Soc., 1861, p. 23 ; id., Malak. Blätt., vol. vii (1861), p. 240.

*Streptaxis eburneus*, Pfr. : Mon. Helic., vol. v (1868), p. 447.

*Hab.*—Cochin China.

The illustrations are from the types in the British Museum.

## 125. STREPTAXIS ELISA, Gould.

*Streptaxis Elisa*, Gld. : Proc. Bost. Soc. Nat. Hist., vol. vi (1856), p. 13 ; id., Otia Conch., 1862, p. 220 ; Pfr., Mon. Helic., vol. v (1868), p. 448.

*Hab.*—Mergui Archipelago.

## 126. STREPTAXIS ROEBELINI, Möllendorff.

*Streptaxis Roebelini*, Mlldff. : Proc. Zool. Soc., 1894, p. 147, pl. xvi, figs. 3, 4.

*Hab.*—Island of Samui, Gulf of Siam.

## 127. STREPTAXIS PLUSSENSIS, De Morgan.

*Streptaxis Plussensis*, De Morgan : Bull. Soc. zool. France, vol. x (1885), p. 371, pl. v, fig. 1.

*Hab.*—Perak : Plus Valley, Mount Tehéhèl.

## 128. STREPTAXIS PACHYCHILUS, Möllendorff.

*Streptaxis pachychilus*, Mlldff. : Nachr. Blatt. Deutsch. Malak. Ges., 1884, p. 171 ; id., Jahrb. Deutsch. Malak. Ges., 1885, p. 374.

*Hab.*—China : Kwang-si.

Section II. *DISCARTEMON*, Pfeiffer.

Malak. Blätt., vol. ii (1856), p. 173. Pariete aperturali et peristomate armatis : *b*, discoideæ. Mon. Helic., vol. iv (1859), p. 328.

Shell discoidal or depressed, conoidal, volutions regular ; openly umbilicated ; aperture transverse, somewhat basal, outer lip reflected or expanded, thickened, and, together with the parietal wall, usually armed with teeth. Tryon : Man. Conch., ser. II, vol. i (1885), p. 58.

## 129. STREPTAXIS DISCUS, Pfeiffer.

*Streptaxis discus*, Pfr. : Proc. Zool. Soc., 1851, p. 252 ; id., Mon. Helic., vol. iii (1853), p. 289 ; id., Chemn. Conch. Cab., ser. II, *Helix*, vol. iii (1854), p. 394, pl. cxlv, figs. 15-17 ; Tryon, Man. Conch., ser. II, vol. i (1885), p. 66, pl. xvi, figs. 77-79.

*Discartemon discus*, Bourg. : Moll. Afr. équat., 1889, p. 46.

*Hab.*—? (Brazil, Bourg.).

## 130. STREPTAXIS CRYPTODON, Moricand.

*Helix (Streptaxis) cryptodon*, Moric. : Journ. de Conch., 1851, p. 370, pl. x, fig. 2.

*Streptaxis cryptodon*, Pfr. : Mon. Helic., vol. iii (1853), p. 289 ; Tryon, Man. Conch., ser. II, vol. i (1885), p. 66, pl. xvi, figs. 87-89.

*Discartemon cryptodon*, Bourg. : Moll. Afr. équat., 1889, p. 46.

*Hab.*—Brazil : Bahia.

131. *STREPTAXIS CROSSEI*, Pfeiffer.

*Streptaxis Crossei*, Pfr. : Journ. de Conch., 1867, p. 43, pl. i, fig. 1 ; Hidalgo, Viaje Pacif. Molusc., pt. i (1869), p. 43, pl. iii, figs. 1, 2 ; id., Journ. de Conch., 1870, p. 39 ; Tryon, Man. Conch., ser. II, vol. i (1885), p. 67, pl. xvi, figs. 3, 4.

*Discartemon Crossei*, Bourg. : Moll. Afr. équat., 1889, p. 46.

*Hab.*—Brazil : Coreobado (Pfr.) ; Botafogo (Hid.).

132. *STREPTAXIS LEMYREI*, Morlet.

*Streptaxis Lemyrei*, Morlet : Journ. de Conch., 1883, p. 104, pl. iv, fig. 1 ; 1889, p. 122 ; Tryon, Man. Conch., ser. II, vol. i (1885), p. 67, pl. xvi, figs. 12, 13.

*Hab.*—Cambodia : Kampot.

133. *STREPTAXIS PARADISCUS*, Möllendorff.

*Streptaxis (Discartemon) paradiscus*, Mlldff. : Nachr. Blatt. Deutsch. Malak. Ges., 1900, p. 117.

*Hab.*—Annam : Phuc-son, near Touranne.

134. *STREPTAXIS PLANUS*, Fulton.

*Streptaxis planus*, Fulton : Proc. Malac. Soc., vol. iii (1899), p. 214, pl. xi, fig. 2.

*Hab.*—South Celebes.

Section III. *ARTEMON*, Beck.

Beck, Index, 1838, p. 48 ; Pfr., Malak. Blätt., vol. ii (1856), p. 172. (Edentulæ : a, subregulares. Pfr., Mon. Helic., vol. i, 1848, p. 3.) + *GIBBONSA*, Bourg. : Moll. Afr. équat., 1889, p. 38.

Shell heliciform, rather flattened, whorls regular, aperture without teeth, outer lip often slightly thickened and expanded or subreflected. Tryon : Man. Conch., ser. II, vol. i (1885), p. 57.

135. *STREPTAXIS CANDIDUS*, Spix.

*Solarium candidum*, Spix : Test. Brasil., 1827, pl. xvii, figs. 3, 4.

*Solarium vitreum*, Spix : Test. Brasil., 1827, pl. xvii, fig. 5.

*Helix perspectiva*, Wagner : in Spix, Test. Brasil., 1827, p. 24.

*Helix candida*, Moricand : Mém. Soc. phys. Genève, vol. vii (1836), p. 421 (a, *striata*) ; vol. ix (1841), p. 57, pl. iv, fig. 1.

*Artemon candidus*, Beck : Index, 1838, p. 48 ; Bourg., Moll. Afr. équat., 1889, p. 44.

*Streptaxis candida*, Pfr. : Mon. Helic., vol. iii (1853), p. 286 ; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. ii (1853), p. 15, pl. ciii, figs. 29, 30.

*Streptaxis candidus*, Pfr. : Mon. Helic., vol. v (1868), p. 439 ; Hidalgo, Viaje Pacif. Molusc., pt. i (1869), p. 42 ; id., Journ. de Conch., 1870, p. 40 ; Tryon, Man. Conch., ser. II, vol. i (1885), p. 61, pl. xii, figs. 1-3.

*Helix Spiriana*, Pfr.: Symb., vol. i (1841), p. 40; id., Mon. Helic., vol. i (1848), p. 404; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. i (1852), p. 146, pl. xix, figs. 1-3; Fér., Hist., vol. i (1850), p. 177, pl. cii, figs. 10-12.

*Streptaxis Spiriana*, Alb.: Die Helic., 1850, p. 132.

*Streptaxis Spirianus*, Paetel: Cat., 1869, p. 83.

*Hab.*—Brazil (Wagner): Bahia (Beck); Island of St. Catharine (Hidalgo).

135a. Var. LÆVISSIMA, Moricand.

*Helix candida*:  $\beta$ , *lævissima*, Moric.: Mém. Soc. phys. Genève, vol. vii (1836), p. 421.

*Hab.*—Brazil: Bahia.

136. STREPTAXIS POLITUS, Fulton.

*Streptaxis politus*, Fulton: Proc. Malac. Soc., vol. iii (1899), p. 302, fig. 1.

*Hab.*—Brazil.

137. STREPTAXIS HELIOS, Pilsbry.

*Streptaxis helios*, Pils.: Proc. Acad. Nat. Sci. Philad., 1897, p. 477; ? Chemn. Conch. Cab., 2nd ed., *Helix*, vol. ii (1853), pl. ciii, figs. 29, 30 (*candida*, var), *vide* Pilsbry.

*Hab.*—Brazil.

138. STREPTAXIS TUMULUS, Pilsbry.

*Streptaxis tumulus*, Pils.: Proc. Acad. Nat. Sci. Philad., 1897, p. 478.

*Hab.*—Brazil.

139. STREPTAXIS CAPILLOSUS, Pilsbry.

*Streptaxis capillosus*, Pils.: Proc. Acad. Nat. Sci. Philad., 1897, p. 478.

*Hab.*—Brazil: prov. Bahia.

140. STREPTAXIS DECUSSATUS, Pilsbry.

*Streptaxis decussatus*, Pils.: Proc. Acad. Nat. Sci. Philad., 1897, p. 479.

*Hab.*—Brazil.

141. STREPTAXIS GIGAS, Smith.

*Streptaxis gigas*, Smith: Ann. & Mag. Nat. Hist., ser. v, vol. vi (1880), p. 429; id., Proc. Zool. Soc., 1881, p. 279, pl. xxxii, fig. 4; Mart., Deutsch. Ost-Afr., vol. iv (1897), p. 30.

*Gibbonsia gigas*, Bourg.: Moll. Afr. équat., 1889, p. 38.

*Hab.*—British East Africa: between Lake Nyassa and east coast.

142. STREPTAXIS REGIUS, Löbbecke.

*Streptaxis regius*, Löbb.: Nachr. Blatt. Deutsch. Malak. Ges., 1881, p. 50; id., Jahrb. Deutsch. Malak. Ges., 1882, p. 3, pl. i, figs. 1-3; Tryon, Man. Conch., ser. II, vol. i (1885), p. 62, pl. xvi, figs. 10, 11.

*Hab.*—? Brazil.

143. *STREPTAXIS INTERMEDIUS*, Albers.

- Streptaxis intermedia*, Alb.: Malak. Blätt., vol. iv (1857), p. 95; Pfr.,  
Mon. Helic., vol. iv (1859), p. 328.  
*Streptaxis intermedius*, Pfr.: Mon. Helic., vol. v (1868), p. 439;  
Tryon, Man. Conch., ser. II, vol. i (1885), p. 61, pl. xii, figs. 4-6.  
*Artemon intermedius*, Bourg.: Moll. Afr. équat., 1889, p. 44.  
*Streptaxis Wagneri*, var., Pfr.: Chemn. Conch. Cab., 2nd ed., *Helix*,  
vol. ii (1853), p. 15, pl. ciii, figs. 26-28.  
*Hab.*—Brazil.

144. *STREPTAXIS WAGNERI*, Pfeiffer.

- Helix Wagneri*, Pfr.: Symb., vol. i (1841), p. 40; id., Mon. Helic.,  
vol. i (1848), p. 405; id., Chemn. Conch. Cab., 2nd ed., *Helix*,  
vol. i (1851), p. 147, pl. xix, figs. 4-6.  
*Streptaxis Wagneri*, Pfr.: Mon. Helic., vol. iii (1853), p. 286; Tryon,  
Man. Conch., ser. II, vol. i (1885), p. 62, pl. xii, figs. 9-11.  
*Artemon Wagneri*, Bourg.: Moll. Afr. équat., 1889, p. 45.  
*Helix Coffreana*, Moricand: Mém. Soc. phys. Genève, vol. ix (1841),  
p. 58, pl. iv, figs. 2, 3.  
*Hab.*—Brazil.

145. *STREPTAXIS COSTULOSUS*, Pfeiffer.

- Helix costulosa*, Pfr.: Proc. Zool. Soc., 1852, p. 136; id., Mon. Helic.,  
vol. iii (1853), p. 159; id., Chemn. Conch. Cab., 2nd ed., *Helix*,  
vol. iii (1854), p. 499, pl. clxi, figs. 29-31; id., Mon. Helic.,  
vol. iv (1859), p. 184.  
*Streptaxis costulosus*, Tryon: Man. Conch., ser. II, vol. i (1885), p. 63,  
pl. xii, figs. 30-32.  
*Artemon costulosus*, Bourg.: Moll. Afr. équat., 1889, p. 45.  
*Hab.*—Venezuela. (Solomon Islands, Pfr.!)

146. *STREPTAXIS APERTUS*, Martens.

- Streptaxis apertus*: *a*, *subglobosus*, Mart.: Malak. Blätt., vol. xv (1868),  
p. 180; Pfr., Mon. Helic., vol. vii (1876), p. 491; G. Pfeiffer,  
Jahrb. Deutsch. Malak. Ges., 1878, p. 69, figs. 9, 10 (anat.).  
*Aleidia aperta*, Bourg.: Moll. Afr. équat., 1889, p. 47.

146a. Var. *DEPRESSA*, Martens.

- Streptaxis depressus* (Mart.), Heynemann: Malak. Blätt., vol. xv (1868),  
p. 101, pl. iv, fig. 2 (anat.).  
*Streptaxis apertus*: *β*, *depressus*, Mart.: Malak. Blätt., vol. xv (1868),  
p. 180.  
*Hab.*—South Brazil.

147. *STREPTAXIS USAMBARICUS*, Craven.

- Helix Usambarica*, Craven: Proc. Zool. Soc., 1880, p. 216, pl. xxii,  
fig. 6.  
*Helix* (? *Mesodon*) *Usambarica*, Tryon: Man. Conch., ser. II, vol. iii  
(1887), p. 155, pl. xxxii, figs. 100 & 1, 2.

*Dorcasia Usambarica*, Pils. : in Tryon, Man. Conch., ser. II, vol. ix (1895), p. 173.

*Streptaxis Usambaricus*, Mart. : Zool. Rec., vol. xvii (1880), Moll. p. 71.  
*Hab.*—German East Africa : Usambara.

148. STREPTAXIS ROLLANDI, Bernardi.

*Helix (Streptaxis) Rollandi*, Bern. : Journ. de Conch., 1857, p. 187, pl. vi, fig. 2.

*Streptaxis Rollandi*, Pfr. : Mon. Helic., vol. iv (1859), p. 329; Tryon, Man. Conch., ser. II, vol. i (1885), p. 62, pl. xii, figs. 12, 13.

*Hab.*—Brazil.

149. STREPTAXIS PAIVANUS, Pfeiffer.

*Streptaxis Pairana*, Pfr. : Journ. de Conch., 1867, p. 43, pl. i, fig. 2; Hidalgo, Viaje Pacif. Molusc., pt. i (1869), p. 44, pl. iii, figs. 3, 4.

*Streptaxis Pairanus*, Pfr. : Mon. Helic., vol. v (1868), p. 440; Hidalgo, Journ. de Conch., 1870, p. 39; Tryon, Man. Conch., ser. II, vol. i (1885), p. 62, pl. xii, figs. 7, 8.

*Aldidia Pairana*, Bourg. : Moll. Afr. équat., 1889, p. 47.

*Hab.*—Brazil : Macahé (Pfr.); Cabo Frio (Hid.).

150. STREPTAXIS CAVICOLA, Gredler.

? *Streptaxis cavicola*, Gredl. : Jahrb. Deutsch. Malak. Ges., 1881, p. 19; id., Malak. Blätt., vol. ix (1886), p. 9; Tryon, Man. Conch., ser. II, vol. ii (1886), p. 216.

*Nanina cavicola*, Heude : Moll. terr. Fleuve Bleu, pt. i (1882), p. 13, pl. xix, fig. 7.

*Chalepotaxis cavicola*, Mlldff. : Ann. Mus. Zool. Acad. imp. Sci., S. Petersb., vi (1901), Uebers.-Tab. I, col. 3.

*Hab.*—China : prov. Hu-nan.

151. STREPTAXIS CONOIDEUS, Pfeiffer.

*Streptaxis conoidea*, Pfr. : Proc. Zool. Soc., 1854, p. 149; id., Mon. Helic., vol. iv (1859), p. 330.

*Streptaxis conoideus*, Pfr. : Mon. Helic., vol. v (1868), p. 440; Mart., Binnen-Moll. Venezuela's, 1873, p. 166, pl. ii, fig. 2; Tryon, Man. Conch., ser. II, vol. i (1885), p. 62, pl. xii, figs. 19, 20.

*Hab.*—Venezuela : Caracas (Mart.). (Malay Peninsula, Pfr. !)

152. STREPTAXIS EPISTYLIUM, Müller.

*Helix epistylum*, Müller : Hist. Verm. terr. fluv., vol. ii (1773), p. 57, No. 250.

*Artemon epistylum*, Beck : Index, 1838, p. 48.

*Streptaxis epistylum*, Shutt. : Mitth. naturf. Ges. Bern, 1853, p. 306; Pfr., Malak. Blätt., vol. i (1854), p. 58; id., Mon. Helic., vol. iv (1859), p. 329; Mörch, Journ. de Conch., 1876, p. 374.

*Hab.*—? (Guinea, Mörch; Central America, Beck).

153. STREPTAXIS CYPSELE, Pfeiffer.

*Helix Cypsele*, Pfr. : Zeits. für Malak., vol. vi (1849), p. 78; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. i (1851), p. 384, pl. xii\*, figs. 8-10; id., Mon. Helic., vol. iii (1853), p. 217.

- Obba Cypsele*, Pfr.: Malak. Blätt., vol. ii (1856), p. 136, No. 1220.  
*Streptaxis Cypsele*, Mart.: Malak. Blätt., vol. xv (1868), p. 180;  
 Tryon, Man. Conch., ser. II, vol. i (1885), p. 63, pl. xvi,  
 figs. 98, 99.  
*Alicidia Cypsele*, Bourg.: Moll. Afr. équat., 1889, p. 47.  
*Hab.*—Brazil.

Section IV. *STREMMATOPSIS*, J. Mabile.

J. Mabile: Bull. Soc. Malac. Fr., vol. iv (1887), p. 132.

Shell having the last whorl strongly compressed below; aperture vertical, oval, contracted by the outer margin, which is grooved, raised in the middle, and terminated by a slight slope which unites with the columellar margin; columella curved, widely dilated, callous.

154. *STREPTAXIS POIRIERI*, J. Mabile.

*Stremmatopsis Poirieri*, Mab.: Bull. Soc. Malac. Fr., vol. iv (1887), p. 131, pl. i, figs. 15, 16.

*Hab.*—Tonkin.

Section V. *IMPURTURBATA*, Martens.

Martens: Mittl. Zool. Samml. Mus. Naturk. Berlin, vol. i (1898), p. 12. Shell pale yellowish-grey, regular, depressed conoid, with prominent radial sculpture and open umbilicus; aperture toothless, with distinctly reflected margin, the basal margin projecting in the middle.

155. *STREPTAXIS CONSTANS*, Martens.

*Streptaxis (Imperturbatia) constans*, Mart.: Mittl. Zool. Samml. Mus. Naturk. Berlin, vol. i (1898), p. 11, pl. ii, fig. 5; Wiegmann, tom. cit., p. 48, with figures (anat.).

*Hab.*—Seychelles: Mahé.

155a. Var. *SILHOUETTE*, Martens.

*Streptaxis (Imperturbatia) constans*, var. *Silhouettæ*, Mart.: Mittl. Zool. Samml. Mus. Naturk. Berlin, vol. i (1898), p. 12.

*Hab.*—Seychelles: Silhouette.

156. *STREPTAXIS VIOLASCENS*, Martens.

*Streptaxis (Imperturbatia) violascens*, Mart.: Mittl. Zool. Samml. Mus. Naturk. Berlin, vol. i (1898), p. 12, pl. ii, fig. 7.

*Hab.*—Seychelles: Mahé.

157. *STREPTAXIS PERELEGANS*, Martens.

*Streptaxis (Imperturbatia) perelegans*, Mart.: Mittl. Zool. Samml. Mus. Naturk. Berlin, vol. i (1898), p. 12, pl. ii, fig. 6.

*Hab.*—Seychelles: Mahé.

158. *STREPTAXIS BRAUERI*, Martens.

*Streptaxis (Imperturbatia) Braueri*, Mart.: Mittl. Zool. Samml. Mus. Naturk. Berlin, vol. i (1898), p. 13, pl. ii, fig. 8; Wiegmann, ib., p. 49, with figures (anat.).

Section VI. *COLPANOSTOMA*, Bourguignat.

Bourg. : Moll. Afr. équat., 1889, p. 43.

Shell openly umbilicated, ventrose, spire convex; transparent, opaline, shining, furrowed by strong lamelliform flexuous radiations. Aperture hollowed out, nearly circular, peristome reflected, except at the upper margin around the channel.

159. *STREPTAXIS LEROYI*, Bourguignat.

*Colpanostoma Leroyi*, Bourg. : Moll. Afr. équat., 1889, p. 48, pl. i, figs. 1-3; Mart., Deutsch. Ost-Afr., vol. iv (1897), p. 33.

*Hab.*—Mount Nguru, between Ukamba and Ussagara.

Section VII. *TAYLORIA*, Bourguignat.

Bourg. : Moll. Afr. équat., 1889, p. 38.

Shell thin, opaque, covered with a deciduous cuticle, of a chestnut-brown colour. Spire convex, with flexuous lamellate striations; umbilicus deep, moderate, funnel-shaped. Aperture hollowed out. Peristome somewhat thickened, well reflected, except at the upper margin.

160. *STREPTAXIS JOUBERTI*, Bourguignat.

*Tayloria Jouberti*, Bourg. : Moll. Afr. équat., 1889, p. 47, pl. ii, figs. 6-9; Mart., Deutsch. Ost-Afr., vol. iv (1897), p. 33.

*Hab.*—Near Lake Tanganyika.

161. *STREPTAXIS VENTROSUS*, Taylor.

? *Zonites ventrosa*, Taylor: Journ. Conch., vol. i (1877), p. 253, pl. ii, fig. 2.

*Tayloria ventrosa*, Bourg. : Moll. Afr. équat., 1889, p. 39; Mart., Deutsch. Ost-Afr., vol. iv (1897), p. 33.

*Hab.*—Zanzibar.

162. *STREPTAXIS ITERATUS*, Martens.

*Tayloria iterata*, Mart. : Deutsch. Ost-Afr., vol. iv (1897), p. 33, with 3 figures.

*Hab.*—German East Africa: Uluguru.

Section VIII. *MICRARTEMON*, Möllendorff.

Mlldff. : Ber. Senck. naturf. Ges., 1890, p. 190.

Shell small, regular, helicoid, depressed, narrowly perforate; with a parietal lamella and basal tooth.

163. *STREPTAXIS BOETGERI*, Möllendorff.

*Streptaxis (Micrartemon) Boettgeri*, Mlldff. : Ber. Senck. naturf. Ges., 1890, p. 190, pl. vii, fig. 1; Semper, Reisen, vol. viii (1898), p. 2, pl. i, fig. 1; Mlldff., Abhandl. naturf. Ges. Gorlitz, vol. xxii (1898), p. 29 (reprint, p. 4).

*Hab.*—Philippine Islands: Cebu; Negros; Guimaras.



## HAPPIA, Bourguignat.

Bourg.: Moll. Afr. équat., 1889, p. 39. = *Ammonoceros*, Pfr.: Malak. Blätt., vol. ii (1856), p. 122 (not *Ammonoceros*, Lamarek, 1822).

Shell umbilicated, depressed, flattened or slightly convex above; fragile, corneous, olivaceous or yellowish. Aperture semi-oval or semicircular, not descending. Peristome simple, acute. Last whorl predominating.

## 1. HAPPIA FLORA, Pfeiffer.

*Helix Flora*, Pfr.: Zeits. für Malak., vol. vii (1850), p. 68; Reeve, Conch. Icon., *Helix*, 1852, pl. xcvii, fig. 534; Pfr., Mon. Helic., vol. iii (1853), p. 103; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. iii (1854), p. 306, pl. cxxvii, figs. 1-3; Hidalgo, Journ. de Conch., 1870, p. 34.

*Hyalina Flora*, Pfr.: Malak. Blätt., vol. ii (1855), p. 55, No. 124; Miller, op. cit., vol. xxv (1878), p. 161.

*Hyalina (Ammonoceras) Flora*, Mart.: Die Heliceen, 2nd ed. (1860), p. 72; id., Conch. Mitth., vol. ii (1883), p. 156; Reibisch, Abh. Nat. Ges. Isis, 1896, p. 55.

*Streptaxis Flora*, Tryon: Man. Conch., ser. II, vol. i (1885), p. 64, pl. xxvii, fig. 4.

*Ammonoceras Flora*, Cousin: Bull. Soc. zool. France, vol. xii (1887), p. 246 (reprint, p. 60).

*Happia Flora*, Bourg.: Moll. Afr. équat., 1889, p. 40.

*Hab.*—Ecuador: Nanegal (Mart.); Quito (Hid.); Gualea (Cousin); Valle del Pastaga (Reibisch). New Grenada: Andes (Pfr.).

## 2. HAPPIA ANDICOLA, Philippi.

*Helix Andicola*, Phil.: Malak. Blätt., vol. xiii (1866), p. 39; Pfr., Nov. Conch., vol. ii (1866), p. 295, pl. lxxii, figs. 1-3.

*Helix Andium*, "Phil.," Pfr.: Malak. Blätt., vol. xiv (1867), p. 79; id., Mon. Helic., vol. v (1868), p. 246.

*Selenites Andium*, Tryon: Man. Conch., ser. II, vol. ii (1886), p. 207, pl. lxi, figs. 3-5.

*Hab.*—Chili: Andes Talcaregüe.

## 3. HAPPIA EUSPIRA, Pfeiffer.

*Helix euspira*, Pfr.: Proc. Zool. Soc., 1854, p. 54; Reeve, Conch. Icon., *Helix*, 1854, pl. clxxxv, fig. 1277; Pfr., Mon. Helic., vol. iv (1859), p. 108.

*Helix (Discus) euspira*, Pfr.: Malak. Blätt., vol. ii (1855), p. 125, No. 457a.

*Hyalina (Ammonoceras) euspira*, Mart.: Binnen-Moll. Venezuela's, 1873, p. 167.

*Macrocyclus euspira*, Bland: Ann. Lye. New York, vol. xi (1874), p. 73; W. G. Binney, Proc. Acad. Nat. Sci. Philad., 1875, p. 247, pl. xxi, fig. 3 (anat.).

*Selenites euspira*, Tryon: Man. Conch., ser. II, vol. ii (1886), p. 207, pl. lxi, fig. 6.

*Hab.*—Brazil (Pfr.); Venezuela (Mart.).

4. *HAPPIA CYCLINA*, Cousin.

*Ammonoceras cyclina*, Cousin: Bull. Soc. zool. France, vol. xii (1887), p. 245 (reprint, p. 59), pl. iv, fig. 6.

*Hab.*—Ecuador.

5. *HAPPIA CUZCANA*, Philippi.

*Helix Cuzcana*, Phil.: Malak. Blätt., vol. xvi (1869), p. 37; Pfr., Nov. Conch., vol. iii (1869), p. 476, pl. cii, figs. 22–24; Hidalgo, Viaje Pacif. Molusc., pt. i (1870), p. 26, pl. ii, figs. 8, 9; Pfr., Mon. Helic., vol. vii (1876), p. 151.

*Streptaxis Cuzcana*, Tryon: Man. Conch., ser. II, vol. i (1885), p. 64, pl. xiii, figs. 46, 47.

*Happia Cuzcana*, Bourg.: Moll. Afr. équat., 1889, p. 40.

*Helix Baezensis*, Hidalgo: Journ. de Conch., 1869, p. 411; 1870, p. 38, pl. vi, fig. 2.

*Hyalina Baezensis*, Miller: Malak. Blätt., vol. xxv (1878), p. 161.

*Hab.*—Peru: Cuzco (Phil.). Ecuador: Baeza (Hid.).

6. *HAPPIA VITRINA*, Wagner.

*Helix vitrina*, Wagner: in Spix, Test. Bras., 1827, p. 25; Pfr., Mon. Helic., vol. i (1848), p. 109; Reeve, Conch. Icon., *Helix*, 1852, pl. cix, fig. 613; Pfr., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. ii (1853), p. 101, pl. lxxxiv, figs. 14–16.

*Helix circumplexa*, Fér.: Hist., vol. i (1839), p. 19, pl. lxxxiv, figs. 5, 6.

*Helix valviformis*, "Nyst.": Chemn. Conch. Cab., 2nd ed., *Helix*, vol. ii (1853), p. 101.

*Solarium imperforatum*, Spix: Test. Bras., 1827, pl. xvii, fig. 6.

*Solarium pygmaeum*, Spix: op. cit., pl. xvii, fig. 7.

*Helix nana* (juv.), Wagner: in Spix, Test. Bras., 1827, p. 25.

*Helix (Helicella) vitrina*, Moricand: Mém. Soc. phys. Genève, vol. vii (1836), p. 421.

*Ammonoceras vitrina*, Pfr.: Malak. Blätt., vol. ii (1856), p. 122, No. 459.

*Discus vitrinus*, H. & A. Ad.: Genera, vol. ii (1858), p. 117.

*Patula vitrina*, Albers: Die Heliceen, 1850, p. 65.

*Hyalina (Ammonoceras) vitrina*, Mart.: Die Heliceen, 2nd ed. (1860), p. 72.

*Helix vitrina*, Hidalgo: Journ. de Conch., 1870, p. 36.

*Streptaxis vitrina*, Tryon: Man. Conch., ser. II, vol. i (1885), p. 64, pl. xiii, figs. 38–40.

*Happia vitrina*, Bourg.: Moll. Afr. équat., 1889, p. 40; Pilsbry, Proc. Acad. Nat. Sci. Philad., 1900, p. 386.

*Streptaxis (Happia) tumescens*, Suter: Rev. Mus. Paulista, vol. iv (1900), p. 330, pl. iii, fig. 4.

*Hab.*—Brazil: Bahia (Moric.); Rio Janeiro (Hid.); São Paulo (Sut., Pils.).

7. *HAPPIA IHERINGI*, Pilsbry.

*Happia Iheringi*, Pils.: Proc. Acad. Nat. Sci. Philad., 1900, p. 385, pl. xii, figs. 1–3.

*Hab.*—Brazil: prov. São Paulo.

8. *HAPPIA AMMONOCERAS*, Pfr.

- Helix ammonoceras*, Pfr.: Proc. Zool. Soc., 1854, p. 54; Reeve, Conch. Icon., *Helix*, 1854, pl. exci, fig. 1338; Pfr., Mon. Helic., vol. iv (1859), p. 104; Bland, Ann. Lyc. New York, vol. xi (1874), p. 86.
- Helix (Ammonoceras) ammonoceras*, Pfr.: Malak. Blätt., vol. ii (1856), p. 122, No. 460a.
- Streptaxis ammonoceras*, Tryon: Man. Conch., ser. II, vol. i (1885), p. 65, pl. xiii, fig. 52.
- Scolodonta ammonoceras*, Bourg.: Moll. Afr. équat., 1889, p. 41.
- Streptaxis (Ammonoceras) ammonoceras*, Smith: Proc. Malac. Soc., vol. i (1895), p. 315.
- Streptaxis (Happia) ammonoceras*, Suter: Rev. Mus. Paulista, vol. iv (1900), p. 330.
- Hab.*—New Grenada: Santa Anna (Pfr.). Brazil: São Paulo (Suter). West Indies: Grenada (Smith).

9. *HAPPIA MOYOBAMBENSIS*, Moricand.

- Helix Moyobambensis*, Moric.: Rev. & Mag. Zool., vol. x (1858), p. 450, pl. xiii, fig. 3; Pfr., Mon. Helic., vol. v (1868), p. 176.
- Streptaxis Moyobambensis*, Tryon: Man. Conch., ser. II, vol. i (1885), p. 65, pl. xiii, figs. 55, 56.
- Happia Moyobambensis*, Bourg.: Moll. Afr. équat., 1889, p. 40.
- Hab.*—Peru: Moyobamba.

10. *HAPPIA AMMONIFORMIS*, Orbigny.

- Helix (Helicella) ammoniformis*, Orb.: Mag. de Zool., vol. v (1835), Moll. p. 5; id., Voy. Amér. mérid., 1837, p. 248, pl. xxvi, figs. 10-13; Desh., in Fér., Hist., vol. i (1839), p. 9, pl. lxix B, fig. 1; Pfr., Mon. Helic., vol. i (1848), p. 110; Reeve, Conch. Icon., *Helix*, 1851, pl. lxi, fig. 307.
- Helix ammoniformis*, M. E. Gray: Fig. Moll. Anim., vol. iii (1859), pl. cclxxxvii, fig. 9.
- Helix (Ammonoceras) ammoniformis*, Pfr.: Malak. Blätt., vol. ii (1856), p. 122, No. 460.
- Hyalina (Ammonoceras) ammoniformis*, Mart.: Malak. Blätt., vol. xiv (1868), p. 175.
- Streptaxis (Ammonoceras) ammoniformis*, Döring: Jahrb. Deutsch. Malak. Ges., 1878, p. 131; Paravicini, Boll. Mus. Torino, vol. ix (1894), No. 181, p. 1.
- Streptaxis ammoniformis*, Tryon: Man. Conch., ser. II, vol. i (1885), p. 65, pl. xiii, figs. 43-45.
- Drepanostomella ammonitiformis*, Bourg.: Moll. Afr. équat., 1889, p. 43.
- Hab.*—Bolivia: prov. Yungas (Orb.). Argentina: La Plata, Tucuman (Döring, Parav.). Brazil: Porto Alegre (Mart.).

## 11. HAPPIA ARGENTINA, Strobel.

*Hyalina Argentina*, Strobel: Mat. Malac. Argent. mérid., vol. iii (1874), p. 9, pl. i, fig. 1.

*Streptaxis (Scolodonta) Argentina*, Döring: Bol. Acad. Cienc. Cordoba, vol. ii (1875), p. 310; id., Period. Zool. Buenos Ayres, vol. ii (1875), p. 229.

*Streptaxis (Scolodonta) Argentinus*, Döring: Jahrb. Deutsch. Malak. Ges., 1878, p. 131.

*Helix (Hyalina) Argentina*, Pfr.: Mon. Helic., vol. vii (1876), p. 450.

*Streptaxis Argentina*, Tryon: Man. Conch., ser. II, vol. i (1885), p. 66, pl. xiii, figs. 58-60.

*Scolodonta Argentina*, Bourg.: Moll. Afr. équât., 1889, p. 41.

*Hab.*—Argentina: Mendoza; Bahia Blanca (Strobel).

## 12. HAPPIA LIZARZABURUI, Jousseaume.

*Ammonoceras Lyzarzaburui*, Jouss.: Bull. Soc. zool. France, vol. xii (1887), p. 174 (reprint, p. 10), pl. iii, fig. 17.

*Ammonoceras Lizarzaburui*, Cousin: *ibid.*, p. 246 (reprint, p. 60).

*Hab.*—Ecuador: San Nicolas.

## 13. HAPPIA DALLIANA, Ancey.

*Happia Dalliana*, Ancy: Journ. Conch., vol. vii (1892), p. 90.

*Hab.*—Bolivia: Santa Cruz de la Sierra.

## SCOLODONTA, Döring.

Döring: Bol. Acad. Cienc. Cordoba, vol. i (1874), p. 438. + PSEUD-ARTEMON, J. Mabile: Bull. Soc. Malac. Fr., vol. iv (1887), p. 126.

Shell openly umbilicated, depressed, thin, whitish - diaphanous, sometimes more solid, olivaceous; distinctly striated. Flattened above, rounded below; aperture rounded, sub-basal. Peristome simple, acute, margins converging.

## 1. SCOLODONTA CHALICOPHILA, Orbigny.

*Helix chalicophila*, Orb.: Mag. de Zool., vol. v (1835), Moll. p. 6; id., Voy. Amér. mérid., 1837, p. 251, pl. xxvii, figs. 8-11 (*calicophila* on explanation of plate); Pfr., Mon. Helic., vol. i (1848), p. 90; Desh., in Fér., Hist., vol. i (1850), p. 85, pl. lxxxiii, figs. 7, 8; Reeve, Conch. Icon., *Helix*, 1854, pl. ccix, fig. 1481; Pfr., Mon. Helic., vol. iv (1859), p. 76.

*Hyalina chalicophila*, Pfr.: Malak. Blätt., vol. ii (1855), p. 124, No. 344.

*Streptaxis chalicophila*, Mart.: Malak. Blätt., vol. xv (1868), p. 182.

*Streptaxis chalcophila*, Tryon: Man. Conch., ser. II, vol. i (1885), p. 63, pl. xii, fig. 21.

*Scolodonta chalicophila*, Bourg.: Moll. Afr. équât., 1889, p. 41.

*Happia chalicophila*, var., Ancy: Boll. Mus. Torino, vol. xii (1897), No. 309, p. 8.

*Hab.*—Bolivia: Chiquitos (Orb.). Argentina: San Lorenzo, prov. Jujuy (Ancy).

2. *SCOLODONTA SKIAPHILA*, Orbigny.

*Helix skiaphila*, Orb. : Mag. de Zool., vol. v (1835), Moll. p. 5; id., Voy. Amér. mérid., 1837, p. 249, pl. xxvii, figs. 4-7; Pfr., Mon. Helic., vol. i (1848), p. 90; Desh., in Fér., Hist., vol. i (1850), p. 86, pl. lxxxiii, figs. 9, 10; Reeve, Conch. Icon., *Helix*, 1854, pl. ccix, fig. 1480.

*Circinaria skiaphila*, Beck : Index, 1838, p. 23.

*Streptaxis skiaphila*, Mart. : Malak. Blätt., vol. xv (1868), p. 182; Tryon, Man. Conch., ser. II, vol. i (1885), p. 63, pl. xii, fig. 22.

*Scolodonta skiaphila*, Bourg. : Moll. Afr. équat., 1889, p. 41.

*Hab.*—Bolivia : Andes, between Moros and Cochabamba.

3. *SCOLODONTA HYLEPHILA*, Orbigny.

*Helix hylephila*, Orb. : Mag. de Zool., vol. v (1835), Moll. p. 7; id., Voy. Amér. mérid., 1837, p. 253, pl. xxviii, figs. 13-16; Pfr., Mon. Helic., vol. i (1848), p. 150; Desh., in Fér., Hist., vol. i (1850), p. 99, pl. lxxxvii, fig. 3; Reeve, Conch. Icon., *Helix*, 1854, pl. ccix, fig. 1482.

*Artemon hylephilus*, Beck : Index, 1838, p. 48.

*Hyatina hylephila*, Döring : Period. Zool. Buenos Ayres, vol. i (1874), p. 114.

*Streptaxis hylephila*, Mart. : Malak. Blätt., vol. xv (1868), p. 182; Tryon, Man. Conch., ser. II, vol. i (1885), p. 64, pl. xii, fig. 33.

*Streptaxis (Scolodonta) hylephila*, Döring : Jahrb. Deutsch. Malak. Ges., 1878, p. 131.

*Scolodonta hylephila*, Bourg. : Moll. Afr. équat., 1889, p. 42.

*Hab.*—Bolivia : Chiquitos (Orb.).

3a. Var. *ochthephila*, Orbigny.

*Helix ochthephila*, Orb. : Mag. de Zool., vol. v (1835), Moll. p. 6; Reeve, Conch. Icon., *Helix*, 1854, pl. ccix, fig. 1478.

*Helix hylephila*, var. *minor*, Orb. : Voy. Amér. mérid., 1837, p. 254, pl. xxviii, figs. 9-12.

*Helix hylephila*, var. *ochthephila*, Pfr. : Mon. Helic., vol. iv (1859), p. 176.

*Streptaxis hylephila*, var. *ochthephila*, Tryon : Man. Conch., ser. II, vol. i (1885), p. 64, pl. xii, fig. 28.

*Scolodonta ochthephila*, Bourg. : Moll. Afr. équat., 1889, p. 42.

*Hab.*—Argentina : La Plata, Corrientes (Döring).

3b. Var. *todros*, Paravicini.

*Streptaxis hylephila*, var. *todros*, Parav. : Boll. Mus. Torino, vol. ix (1894), No. 181, p. 2.

*Hab.*—Paraguay.

4. *SCOLODONTA BOUNOBENA*, Orbigny.

*Helix Bounobena*, Orb. : Mag. de Zool., vol. v (1835), Moll. p. 7; id., Voy. Amér. mérid., 1837, p. 253, pl. xxviii, figs. 17-20; Pfr., Mon. Helic., vol. i (1848), p. 150; Desh., in Fér., Hist., vol. i (1850), p. 87, pl. lxxxiv, figs. 7, 8; Reeve, Conch. Icon., *Helix*, 1854, pl. ccix, fig. 1477; Pfr., Mon. Helic., vol. iv (1859), p. 123.

*Artemon Bunobænus*, Beck : Index, 1838, p. 48.

*Hygromia Bounobæna*, Pfr. : Malak. Blätt., vol. ii (1855), p. 127, No. 621.

*Streptaxis Bounobæna*, Mart. : Malak. Blätt., vol. xv (1868), p. 182 ; Tryon, Man. Conch., ser. II, vol. i (1885), p. 64, pl. xii, fig. 34.

*Scolodonta Bounobæna*, Bourg. : Moll. Afr. équat., 1889, p. 42.

*Hab.*—Bolivia : Chiquitos (Orb.). Brazil (Bourg.) [?].

#### 5. SCOLODONTA OMALOMORPHA, Orbigny.

*Helix omalomorpha*, Orb. : Mag. de Zool., vol. v (1835), Moll. p. 5 ; id., Voy. Amér. mérid., 1837, p. 249, pl. xxvii, figs. 1-3 ; Pfr., Mon. Helic., vol. i (1848), p. 109 ; Desh., in Fér., Hist., vol. i (1850), p. 84, pl. lxxix c, fig. 1 ; Reeve, Conch. Icon., *Helix*, 1854, pl. ccix, fig. 1483 ; Pfr., Mon. Helic., vol. iv (1859), p. 74.

*Patula omalomorpha*, Albers : Die Heliceen, 1850, p. 65.

*Discus omalomorpha*, H. & A. Ad. : Genera, vol. ii (1858), p. 117 ; Chenu, Man. Conch., 1859, p. 424, fig. 3138.

*Helix (Hyalina) omalomorpha*, Pfr. : Malak. Blätt., vol. ii (1855), p. 125, No. 458.

*Hyalina (Ammonoceras) omalomorpha*, Mart. : Die Heliceen, 2nd ed. (1860), p. 72.

*Streptaxis omalomorpha*, Tryon : Man. Conch., ser. II, vol. i (1885), p. 64, pl. xii, fig. 14.

*Haipia omalomorpha*, Bourg. : Moll. Afr. équat., 1889, p. 40.

*Hab.*—Bolivia : prov. Valle Grande.

#### 6. SCOLODONTA THOMASI, Pfciffer.

*Helix Thomasi*, Pfr. : Proc. Zool. Soc., 1854, p. 54 ; Reeve, Conch. Icon., *Helix*, 1854, pl. cxc, fig. 1332 ; Pfr., Mon. Helic., vol. iv (1859), p. 102.

*Hyalina Thomasi*, Pfr. : Malak. Blätt., vol. ii (1855), p. 124, No. 468a.

*Ammonoceras Thomasi*, H. Ad. : Proc. Zool. Soc., 1870, p. 375.

*Streptaxis Thomasi*, Tryon : Man. Conch., ser. II, vol. i (1885), p. 65, pl. xiii, fig. 48.

*Streptaxis (Ammonoceras) Thomasi*, Smith : Proc. Malac. Soc., vol. i (1895), p. 303.

*Scolodonta Thomasi*, Bourg. : Moll. Afr. équat., 1889, p. 41.

*Hab.*—New Grenada : Marmato (Pfr.). West Indies : St. Vincent ; Grenada (Smith).

#### 7. SCOLODONTA TROCHILIONEIDES, Orbigny.

*Helix trochilioneides*, Orb. : Mag. de Zool., vol. v (1835), Moll. p. 6 ; id., Voy. Amér. mérid., 1837, p. 251, pl. xxvii, figs. 12-15 ; Pfr., Mon. Helic., vol. i (1848), p. 113 ; Desh., in Fér., Hist., vol. i (1850), p. 85, pl. lxxix c, figs. 7, 8 ; Reeve, Conch. Icon., *Helix*, 1854, pl. clxxxi, fig. 1247 ; Hidalgo, Journ. de Conch., 1870, p. 38 ; id., Viaje Pacif. Molusc., pt. i (1872), p. 28.

*Helix trochilionoides*, Pfr. : Chemn. Conch. Cab., 2nd ed., *Helix*, vol. ii (1853), p. 113, pl. lxxxv, figs. 27-29.

*Helix (Hyalina) trochiloides*, Albers : Die Heliceen, 1850, p. 67.

*Hyalina trochilioneides*, Pfr. : Malak. Blätt., vol. ii (1855), p. 124, No. 476.

*Helicella trochiloides*, H. & A. Ad. : Genera, vol. ii (1858), p. 119.

*Helicella trochilioneides*, Chenu : Man. de Conch., 1859, p. 424, fig. 3139.

*Streptaxis trochilionoides*, Mart. : Malak. Blätt., vol. xv (1868), p. 182.

*Streptaxis trochilioneides*, Tryon : Man. Conch., ser. II, vol. i (1885), p. 65, pl. xiii, figs. 49-51.

*Helix (Ammonoceras) trochilioneides*, Lubomirski : Proc. Zool. Soc., 1879, p. 719.

*Happia trochiloides*, Bourg. : Moll. Afr. équat., 1889, p. 40.

*Happia trochilioneides*, var., Ancey : Boll. Mus. Torino, vol. xii (1897), No. 309, p. 8.

*Hab.*—Bolivia : Laguna (Orb.). Peru : Lima (Hid., Lub.). Argentina : Tala, prov. Salta (Ancey).

#### 8. SCOLODONTA PARAGUAYANA, Pfeiffer.

*Helix Paraguayana*, Pfr. : Symb., vol. ii (1842), p. 93 ; id., Mon. Helic., vol. i (1848), p. 85 ; Reeve, Conch. Icon., *Helix*, 1854, pl. ccix, fig. 1479.

*Petasia Paraguayana*, Pfr. : Malak. Blätt., vol. ii (1855), p. 128.

*Patula Paraguayana*, Döring : Jahrb. Deutsch. Malak. Ges., 1878, p. 132.

*Hyalina Paraguayana*, Döring : Period. Zool. Buenos Ayres, vol. i (1874), p. 114 ; Tryon, Man. Conch., ser. II, vol. ii (1886), p. 175, pl. liii, fig. 57.

*Scolodonta Paraguayana*, Bourg. : Moll. Afr. équat., 1889, p. 42.

*Hyalinia (Conulus) Paraguayana*, Paravicini : Boll. Mus. Torino, vol. ix (1894), No. 181, p. 2.

*Helix elevata*, Orb. (not of Say) : Mag. de Zool., vol. v (1835), Moll. p. 6 ; id., Voy. Amér. mérid., 1837, p. 254, pl. xxviii, figs. 5-8.

*Hab.*—Paraguay : Montevideo (Orb.) ; San Pedro (Parav.).

#### 9. SCOLODONTA ORBICULA, Orbigny.

*Helix orbicula*, Orb. : Mag. de Zool., vol. v (1835), Moll. p. 6 ; id., Voy. Amér. mérid., 1837, p. 250, pl. xxvii, figs. 16-19 ; Pfr., Mon. Helic., vol. i (1848), p. 111 ; id., Chemn. Conch. Cab., 2nd ed., *Helix*, vol. ii (1853), p. 101, pl. lxxxiii, figs. 32-34 ; Desh., in Fér., Hist., vol. i (1850), p. 86, pl. lxxxiii, figs. 5, 6 ; Reeve, Conch. Icon., *Helix*, 1852, pl. cvii, fig. 602.

*Helix (Patula) orbicula*, Albers : Die Heliceen, 1850, p. 65.

*Hyalina orbicula*, Pfr. : Malak. Blätt., vol. ii (1855), p. 124, No. 464.

*Discus orbicula*, H. & A. Ad. : Genera, vol. ii (1858), p. 117.

*Streptaxis orbicula*, Mart. : Malak. Blätt., vol. xv (1868), p. 182 ; Tryon, Man. Conch., ser. II, vol. i (1885), p. 65, pl. xiii, figs. 35-37.

*Happia orbicula*, Bourg. : Moll. Afr. équat., 1889, p. 40.

*Hab.*—Bolivia : Santa Cruz (Orb.).

## 10. SCOLODONTA NITIDULA, Dohrn.

*Ammonoceras nitidulus*, Dohrn: Jahrb. Deutsch. Malak. Ges., 1882, p. 97.

*Hab.*—Brazil: Pará.

## 11. SCOLODONTA INTERRUPTA, Suter.

*Streptaxis (Happia) interrupta*, Suter: Rev. Mus. Paulista, vol. iv (1900), p. 331, pl. iii, fig. 5.

*Scolodonta interrupta*, Pils.: Proc. Acad. Nat. Sci. Philad., 1900, p. 385, pl. xii, figs. 6-8.

*Hab.*—Brazil: prov. São Paulo.

## 12. SCOLODONTA BOURGUIGNATI, Mabilelle.

*Pseudartemon Bourguignati*, Mab.: Bull. Soc. Malac. Fr., vol. iv (1887), p. 125, pl. iv, figs. 4-6.

*Hab.*—Tonkin.

## 13. SCOLODONTA SEMPERI, Döring.

*Streptaxis (Scolodonta) Semperi*, Döring: Bol. Acad. Cienc. Cordoba, vol. i (1874), pp. 439, 440, with fig. (radula); Strobel, ib., vol. ii (1875), p. 311; Döring, Period. Zool. Buenos Ayres, vol. ii (1875), p. 230; id., Nachr. Blatt. Deutsch. Malak. Ges., 1876, p. 4; id., Jahrb. Deutsch. Malak. Ges., 1878, p. 131.

*Scolodonta Semperi*, Bourg.: Moll. Afr. équat., 1889, p. 41.

*Hab.*—Argentina: Cordoba; Mendoza.

## 14. SCOLODONTA AMAZONICA, Dohrn.

*Ammonoceras Amazonicus*, Dohrn: Jahrb. Deutsch. Malak. Ges., 1882, p. 97.

*Hab.*—Brazil: Pará.

## 15. SCOLODONTA SPIRORBIS, Deshayes.

*Helix spirorbis*, Desh.: in Fér., Hist., vol. i (1850), p. 83, pl. lxxxii A, figs. 1-3; Pfr., Mon. Helic., vol. iii (1853), p. 110; Hupé, in Castelnaud, Expéd. Amér. sud, Zool., vol. iii (1854), Moll. p. 14.

*Helix (Patula) spirorbis*, Mart.: Ost-Asien, Zool., vol. ii (1867), p. 8.

*Scolodonta spirorbis*, Bourg.: Moll. Afr. équat., 1889, p. 41.

*Hab.*—Brazil: Rio Janeiro.

## 16. SCOLODONTA MUTATA, Gould.

*Helix mutata*, Gould: Exped. Shells, 1846, p. 19; id., Proc. Boston Soc. Nat. Hist., vol. ii (1846), p. 167; Pfr., Mon. Helic., vol. i (1848), p. 100.

*Hyalina* sp. (? *mutata*), Mart.: Ost-Asien, Zool., vol. ii (1867), p. 6.

*Scolodonta mutata*, Bourg.: Moll. Afr. équat., 1889, p. 42.

*Hab.*—Brazil: Rio Janeiro (Gould); Ilhadas Flores (Boettger).

## 17. SCOLODONTA PUPILLA, Morelet.

*Streptaxis pupilla*, Morel.: Journ. de Conch., 1887, p. 283, pl. ix, fig. 2.

*Hab.*—Comoro Islands: Great Comoro.



SPURIOUS *STREPTAXIS*.

- Helix problematica*, Pfr.: Zeits. für Malak., vol. ix (1852), p. 91; id., Mon. Helic., vol. iii (1853), p. 87; Reeve, Conch. Icon., *Helix*, 1854, p. 182, fig. 1264; Pfr., in Chemn., Conch. Cab., *Helix*, vol. iii (1881), p. 471, pl. clvii, figs. 3, 4.  
*Nanina problematica*, Gray: Catal. Pulmon., pt. i (1855), p. 141.  
*Streptaxis problematica*, Tryon: Man. Conch., ser. II, vol. i (1885), p. 66, pl. xii, fig. 15.  
*Registoma grandis* (juv.), Mart.: Malak. Blätt., vol. xi (1864), p. 109; Pfr., Mon. Helic., vol. v (1868), p. 144.

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## APPENDIX.

Since the foregoing pages passed through the press some additional species and varieties have been published. To complete the record of the genus they are here appended. These increase the number of Asiatic species to 79, and the total to 165.

## 105b. STREPTAXIS SIAMENSIS, Pfr., var. SUBGLOBOSA, Mlldff.

*Streptaxis Siamensis*, subsp. *subglobosa*, Mlldff.: Nachr. Blatt. Deutsch. Malak. Ges., 1902, p. 154.

*Hab.*—Siam: Hinlap; Muoklek.

## 105c. Var. EXPANSILABRIS, Mlldff.

*Streptaxis Siamensis*, subsp. *expansilabris*, Mlldff.: Nachr. Blatt. Deutsch. Malak. Ges., 1902, p. 154.

*Hab.*—Siam: Ko-si-chang.

## 105d. Var. CINGULATA, Mlldff.

*Streptaxis Siamensis*, subsp. *cingulatus*, Mlldff.: Nachr. Blatt. Deutsch. Malak. Ges., 1902, p. 85; Mart., Ost-Asien, Zool., vol. ii (1867), p. 85.

*Hab.*—Siam.

## 164. STREPTAXIS SYKESI, Collinge.

*Streptaxis Sykesi*, Collinge: Journ. Malac., vol. ix (1902), p. 72, pl. iv, figs. 1, 2.

*Hab.*—Malay Peninsula: Biserat, State of Jalor.

## 165. STREPTAXIS STRIATULA, Collinge.

*Streptaxis striatula*, Collinge: Journ. Malac., vol. ix (1902), p. 73, pl. iv, figs. 3, 4.

*Hab.*—Malay Peninsula: Belimbing, State of Ligei.

## EXPLANATION OF PLATE IV.

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